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TO: James Schultz
Location: REM-2D18/2C18
Art Unit: 1635
Wednesday, April 21, 2004
Case Serial Number: 10/001844

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Search Notes

Examiner Schultz,

See attached results.

If you have any questions about this search feel free to contact me at any time.

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Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-2527



KW Human; genome-derived myosin-like protein 1; hGMLP-1; hGMLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX OS Homo sapiens.

XX WO200192524-A2.

XX PD 06-DEC-2001.

XX PR 25-MAY-2001; 2001WO-US016981.

PR 26-MAY-2000; 2000US-0207458P.

PR 21-SEP-2000; 2000US-0236358P.

PR 04-OCT-2000; 2000GB-03024263.

PR 30-JAN-2001; 2001WO-US000651.

PR 30-JAN-2001; 2001WO-US000662.

PR 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.

PR 30-JAN-2001; 2001WO-US000665.

PR 30-JAN-2001; 2001WO-US000666.

PR 30-JAN-2001; 2001WO-US000667.

PR 30-JAN-2001; 2001WO-US000668.

PR 30-JAN-2001; 2001WO-US000669.

PR 30-JAN-2001; 2001WO-US000670.

PR 05-FEB-2001; 2001US-0266860P.

XX PA (AEOM-) AEOMICA INC.

XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;

XX DR WPI; 2002-179446/23.

XX PT New polypeptide, for raising antibodies that recognize hGMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGMLP-1.

XX Disclosure; SEQ ID NO 10466; 214pp; English.

XX PS The present invention describes a human genome-derived myosin-like protein 1 (hGMLP-1). The protein and polynucleotide sequences of hGMLP-1 can be used in gene therapy and vaccine production. The hGMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGMLP-1 production, and in vaccines or for replacement therapy. The hGMLP-1 polynucleotide sequences encoding hGMLP-1 may be used for diagnosing a disorder associated with the expression of hGMLP-1, in particular heart and skeletal muscle disorders. hGMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGMLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequence

XX Sequence 17 BP; 1 A; 3 C; 9 G; 4 T; 0 U; 0 Other;

XX Query Match 2.8%; Score 11.8; DB 1; Length 17;

XX Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 16 TGCGGCTGACCGAGG 30

Db 3 TCGGGTGTACCTGG 17

RESULT 1045

ID ABV85710

ID ABV85710 standard; DNA; 17 BP.

AC ABV85710;

XX DT 11-DEC-2002 (first entry)

XX DE Human pp-Ganttase 10 scanning 17-mer SEQ ID NO:703.

XX KW Human; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10;

KW pp-GantTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;
 KW ss.
 XX OS Homo sapiens.
 OS Synthetic.
 XX PN EP1243660-A2.
 XX PD
 XX 25-SEP-2002.
 XX PR 25-JAN-2002; 2002EP-00001161.
 XX PR 30-JAN-2001; 2001WO-US000663.
 XX PR 30-JAN-2001; 2001WO-US000664.
 XX PR 30-JAN-2001; 2001WO-US000665.
 XX PR 30-JAN-2001; 2001WO-US000666.
 XX PR 30-JAN-2001; 2001WO-US000667.
 XX PR 30-JAN-2001; 2001WO-US000668.
 XX PR 30-JAN-2001; 2001WO-US000669.
 XX PR 30-JAN-2001; 2001WO-US000670.
 XX PR 23-MAY-2001; 2001US-00864761.
 XX PR 30-AUG-2001; 2001US-0315984P.
 XX PA (ABOM-) ABOMICA INC.
 XX PI Zhang J, Gu Y, Nguyen C;
 XX DR
 XX PT WPI; 2002-724954/79.
 XX Nucleic acid encoding human UDP-GalNAc:polypeptide N-
 PT cetylgalactosaminyltransferase 10 protein is useful to diagnose, prevent
 PT and treat disorders associated with reduced or over expression of the
 PT encoded protein.
 XX Example 2; SEQ ID NO 703; 59pp; English.
 XX The present invention describes an isolated nucleic acid (I) encoding a
 CC nucleic acid encoding human UDP-GalNAc:polypeptide N-
 CC cetylgalactosaminyltransferase 10 protein is useful to diagnose, prevent
 PT and treat disorders associated with reduced or over expression of the
 PT encoded protein.
 XX Example 2; SEQ ID NO 702; 59pp; English.
 XX The present invention describes an isolated nucleic acid (I) encoding a
 CC human UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10 (pp-
 CC GantTase 10, EC 2.4.1.41) protein. Human pp-GantTase 10 is located to
 CC chromosome 7q11.2. (I) can be used in gene therapy. Molecules of the
 CC present invention can be used in therapy, particularly to prevent or
 treat a disorder associated with decreased expression or activity of pp-
 CC GantTase. The sequences given in ABV85011 to ABV8689 and ABP3502 to
 CC ABP3504 are given in the exemplification of the present invention. N.B.
 CC The sequence data for this patent is not represented in the printed
 CC specification but is based on sequence information supplied by the
 European Patent Office.
 XX SQ Sequence 17 BP; 2 A; 3 C; 9 G; 3 T; 0 U; 0 Other;
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
 DE Best Local Similarity 85.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 AC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 286 CCAAGCTGGTGAAGG 300
 Db 1 CCGGGCTGGTGAAGG 15
 RESULT 1047
 ID ABV8509
 ID ABV85709 standard; DNA; 17 BP.
 AC
 AC ABV85709;
 AC 11-DEC-2002 (first entry)
 DT Human pp-GantTase 10 scanning 17-mer SEQ ID NO:702.
 XX Human; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10;
 KW pp-GantTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;
 KW BB.
 XX OS Homo sapiens.
 OS Synthetic.
 XX PN EP1243660-A2.
 XX PD
 XX 25-SEP-2002.
 XX PR 25-JAN-2002; 2002EP-00001161.
 XX PR 30-JAN-2001; 2001WO-US000663.
 XX PR 30-JAN-2001; 2001WO-US000664.
 XX PR 30-JAN-2001; 2001WO-US000665.
 XX PR 30-JAN-2001; 2001WO-US000666.
 XX PR 30-JAN-2001; 2001WO-US000667.
 XX PR 30-JAN-2001; 2001WO-US000668.
 XX PR 30-JAN-2001; 2001WO-US000669.
 XX PR 30-JAN-2001; 2001WO-US000670.
 XX PR 23-MAY-2001; 2001US-00864761.
 XX PR 30-AUG-2001; 2001US-0315984P.
 XX PA (ABOM-) ABOMICA INC.
 XX PI Zhang J, Gu Y, Nguyen C;
 XX DR WPI; 2002-724954/79.
 XX Nucleic acid encoding human UDP-GalNAc:polypeptide N-
 PT cetylgalactosaminyltransferase 10 Protein is useful to diagnose, prevent
 PT and treat disorders associated with reduced or over expression of the
 PT encoded protein.
 XX Example 2; SEQ ID NO 702; 59pp; English.
 XX The present invention describes an isolated nucleic acid (I) encoding a
 CC human UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10 (pp-
 CC GantTase 10, EC 2.4.1.41) protein. Human pp-GantTase 10 is located to
 CC chromosome 7q11.2. (I) can be used in gene therapy. Molecules of the
 CC present invention can be used in therapy, particularly to prevent or
 treat a disorder associated with decreased expression or activity of pp-
 CC GantTase. The sequences given in ABV85011 to ABV8689 and ABP3502 to
 CC ABP3504 are given in the exemplification of the present invention. N.B.
 CC The sequence data for this patent is not represented in the printed
 CC specification but is based on sequence information supplied by the
 European Patent Office.
 XX SQ Sequence 17 BP; 2 A; 4 C; 8 G; 3 T; 0 U; 0 Other;
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
 DE Best Local Similarity 85.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 AC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 286 CCAAGCTGGTGAAGG 300
 Db 2 CCGGGCTGGTGAAGG 16
 RESULT 1048
 ID ABK25243C
 ID ABK25243 standard; DNA; 17 BP.
 AC
 AC ABK25243;
 AC
 AC 09-APR-2002 (first entry)
 DT
 XX Male-sterile Plant producing genome altering oligonucleotide #143.
 XX Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss;
 KW o-methyl modification; DNA modification; phosphorothioate linkage;
 KW DNA repair; DNA alteration; environmental tolerance; hygromycin-B;
 KW abiotic stress tolerance; improved nutritional value; hygromycin; primer;
 KW amino acid over production; herbicide resistance; glyphosate resistance;
 KW imidazolinone herbicide resistance; sulphonylurea herbicide resistance;
 KW porphyric herbicide resistance; triazine resistance; disease resistance;

XX
DE
XX
KW
modified oil production; modified starch production; waxy starch;
altered floral morphology; male-sterile plant; albino mutant;
increased stearate production; reduced palmitate production; albino plant;
increased linolenic acid production; photosynthetic process.

XX
OS
Triticum aestivum.
Synthetic.
XX
WO200192512-A2.
XX
06-DEC-2001.
XX
01-JUN-2001; 2001WO-US017672.
XX
01-JUN-2001; 2000US-0208538P.
PR
30-OCT-2000; 2000US-0244989P.
PR
27-MAR-2001; 2001US-00818875.
XX
(UWDE) UNIV DELAWARE.
PA
XX
PI
Kuniec EB, Gamper HB, Rice MC, Kim J;
XX
DR
WPI; 2002-106307/14.

XX
PT
New oligonucleotides with modified nuclelease-resistant termini, useful for creating plants with desired phenotypes, e.g. stress tolerance, improved nutritional value, herbicide or disease resistance, or modified oil production.

XX
PS
Claim 7; Page 79; 220pp; English.

XX
CC
The invention relates to an oligonucleotide for targeted alteration of a genetic sequence, which comprises a single-stranded oligonucleotide having a DNA domain. The DNA domain has at least one mismatch with respect to the genetic sequence to be altered and further comprises chemical modifications of the oligonucleotide. The chemical modifications consist of o-methyl modification, an RNA modification, two or more phosphorothioate linkages on a terminus, or a combination of any two or more of these modifications. The Oligonucleotides are useful for directing repair or alteration of plant genetic information. The oligonucleotides are particularly useful for creating plants with desired phenotypes, e.g. environmental or abiotic stress tolerance, improved nutritional value (e.g. altering amino acid content of plants or conferring amino acid over production), herbicide resistance (e.g. glyphosate resistance, imidazolinone and sulphonylurea herbicide resistance, porphyrin herbicide resistance or triazine resistance), disease resistance, modified oil production, modified starch production (e.g. increased starch or production of waxy starch), altered floral morphology (e.g. male-sterile plants) or modified fatty acid content (e.g. reduced palmitate, increased stearate or reduced linolenic acid). The oligonucleotides are also useful for producing albino mutants for the analysis of photosynthetic processes. This sequence represents a genome altering oligonucleotide of the invention.

XX
SQ
Sequence 17 BP; 5 A; 2 C; 7 G; 3 T; 0 U; 0 Other;

XX
Query Match, Best Local Similarity 86.7%; Pred. No. 5e+02; Length 17; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 402 GRCTCTACGTGTC 416

Db 16 GCCTCTACGTGTC 2

XX
RESULT 1049
ABK25256
ID ABK25256 standard; DNA; 17 BP.
XX
AC ABK25256;
XX
DT 09-APR-2002 (first entry)

XX
DE
XX
KW
Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss;
o-methyl modification; RNA modification; phosphorothioate linkage;
DNA repair; DNA alteration; environmental tolerance; hygromycin-B;
abiotic stress tolerance; improved nutritional value; hygromycin; primer;
amino acid over production; herbicide resistance; sulphonylurea herbicide resistance;
imidazolinone herbicide resistance; sulphonylurea herbicide resistance;
porphyrin herbicide resistance; triazine resistance; disease resistance;
modified oil production; modified starch production; waxy starch;
altered floral morphology; male-sterile plant; albino mutant;
modified fatty acid content; reduced palmitate production; albino plant;
increased stearate production; reduced linolenic acid production;
photosynthetic process.

XX
OS
Zea mays.
OS
Synthetic.
XX
PN
WO200192512-A2.
XX
DD
06-DEC-2001.
XX
PR
01-JUN-2001; 2001WO-US017672.
XX
PR
01-JUN-2001; 2000US-0208538P.
PR
30-OCT-2000; 2000US-0244989P.
PR
27-MAR-2001; 2001US-00818875.
XX
PA
(UWDE) UNIV DELAWARE.
XX
PI
Kuniec EB, Gamper HB, Rice MC, Kim J;
XX
DR
WPI; 2002-106307/14.

XX
PT
New oligonucleotides with modified nuclelease-resistant termini, useful for creating plants with desired phenotypes, e.g. stress tolerance, improved nutritional value, herbicide or disease resistance, or modified oil production.

XX
PS
Claim 7; Page 80; 220pp; English.

XX
CC
The invention relates to an oligonucleotide for targeted alteration of a genetic sequence, which comprises a single-stranded Oligonucleotide having a DNA domain. The DNA domain has at least one mismatch with respect to the genetic sequence to be altered and further comprises chemical modifications of the oligonucleotide. The chemical modifications consist of o-methyl modification, an RNA modification, two or more phosphorothioate linkages on a terminus, or a combination of any two or more of these modifications. The Oligonucleotides are useful for directing repair or alteration of plant genetic information. The oligonucleotides are particularly useful for creating plants with desired phenotypes, e.g. environmental or abiotic stress tolerance, improved nutritional value (e.g. altering amino acid content of plants or conferring amino acid over production), herbicide resistance (e.g. glyphosate resistance, imidazolinone and sulphonylurea herbicide resistance, porphyrin herbicide resistance or triazine resistance), disease resistance, modified oil production, modified starch production (e.g. increased starch or production of waxy starch), altered floral morphology (e.g. male-sterile plants) or modified fatty acid content (e.g. reduced palmitate, increased stearate or reduced linolenic acid). The oligonucleotides are also useful for producing albino mutants for the analysis of photosynthetic processes. This sequence represents a genome altering oligonucleotide of the invention.

XX
SQ
Sequence 17 BP; 3 A; 6 C; 2 G; 6 T; 0 U; 0 other;

XX
Query Match, Best Local Similarity 86.7%; Pred. No. 5e+02; Length 17; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 402 GRCTCTACGTGTC 416

Db

2 GCCTCTACATGATC 16

RESULT 1050

ABK2525/C

ID ABK2525 standard; DNA; 17 BP.

XX ABK2525;

AC

XX

DT 09-APR-2002 (first entry)

Male-sterile plant producing genome altering oligonucleotide #155.

XX

KW Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss; o-methyl modification; lna modification; phosphorothioate linkage;

KW DNA repair; DNA alteration; environmental tolerance; hygromycin-B; primer;

KW abiotic stress tolerance; improved nutritional value; hygromycin; primer;

KW amino acid over production; herbicide resistance; glyphosate resistance;

KW imidazolinone herbicide resistance; sulphonylurea herbicide resistance;

KW porphyric herbicide resistance; triazine resistance; disease resistance;

KW modified oil production; modified starch production; waxy starch;

KW altered floral morphology; male-sterile plant; albino mutant;

KW modified fatty acid content; reduced palmitate production; albino plant;

KW increased stearate production; reduced linolenic acid production;

KW photosynthetic process.

OS Zea mays.

OS Synthetic.

XX WO200192512-A2.

PD 06-DEC-2001.

PP 01-JUN-2001; 2001WO-US017672.

XX PR 01-JUN-2000; 2000US-020853BP.

PR 30-OCT-2000; 2000US-0244989P.

PR 27-MAR-2001; 2001US-00818875.

XX PA (UYDE) UNIV DELAWARE.

PS Claim 7; Page 80; 220pp; English.

XX CC The invention relates to an oligonucleotide for targeted alteration of a

CC genetic sequence, which comprises a single-stranded oligonucleotide having a DNA domain. The DNA domain has at least one mismatch with

CC respect to the genetic sequence to be altered and further comprises

CC chemical modifications of the oligonucleotide. The chemical modifications

CC consist of o-methyl modification, an LNA modification, two or more

CC phosphorothioate linkages on a terminus, or a combination of any two or

CC more of these modifications. The oligonucleotides are useful for

CC directing repair or alteration of plant genetic information. The

CC oligonucleotides are particularly useful for creating plants with desired

CC phenotypes, e.g. environmental or abiotic stress tolerance, improved

CC nutritional value (e.g. altering amino acid content of plants or

CC conferring amino acid over production), herbicide resistance (e.g.

CC glyphosate resistance, imidazolinone and sulphonylurea herbicide

CC resistance, porphyric herbicide resistance or triazine resistance),

CC disease resistance, modified oil production, modified starch production

CC (e.g. increased starch or production of waxy starch), altered floral

CC morphology (e.g. male-sterile plants) or modified fatty acid content

CC (e.g. reduced palmitate, increased stearate or reduced linolenic acid).

The oligonucleotides are also useful for producing albino mutants for the analysis of photosynthetic processes. This sequence represents a genome

CC altering oligonucleotide of the invention

XX

SQ Sequence 17 BP; 6 A; 2 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

ID ABK25244 standard; DNA; 17 BP.

Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db QY 402 GCTCTCTAGTGTGTC 416

16 GCCTCTACATGATC 2

RESULT 1051

ABK25244 standard; DNA; 17 BP.

XX

ABK25244;

AC

XX

DT 09-APR-2002 (first entry)

Male-sterile plant producing genome altering oligonucleotide #144.

XX

KW Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss; o-methyl modification; DNA modification; phosphorothioate linkage;

KW DNA repair; DNA alteration; environmental tolerance; hygromycin-B; primer;

KW abiotic stress tolerance; improved nutritional value; hygromycin; primer;

KW amino acid over production; herbicide resistance; sulphonylurea herbicide resistance;

KW imidazolinone herbicide resistance; triazine resistance; disease resistance;

KW modified oil production; modified starch production; waxy starch;

KW altered floral morphology; male-sterile plant; albino mutant;

KW modified fatty acid content; reduced palmitate production; albino plant;

KW increased stearate production; reduced linolenic acid production;

KW photosynthetic process.

OS

OS Synthetic.

XX PN WO200192512-A2.

PD 06-DEC-2001.

PP 01-JUN-2001; 2001WO-US017672.

XX

PR 01-JUN-2000; 2000US-020853BP.

PR 30-OCT-2000; 2000US-0244999P.

PR 27-MAR-2001; 2001US-00818875.

XX PA (UYDE) UNIV DELAWARE.

PS Claim 7; Page 79; 220pp; English.

XX PI Kmiec EB, Gamper HB, Rice MC, Kim J;

XX DR WPI, 2002-10307/14.

CC New oligonucleotides with modified nuclelease-resistant termini, useful for

CC creating plants with desired phenotypes, e.g. stress tolerance, or modified oil

CC production.

XX PS Claim 7; Page 79; 220pp; English.

CC The invention relates to an oligonucleotide for targeted alteration of a

CC genetic sequence, which comprises a single-stranded oligonucleotide

CC having a DNA domain. The DNA domain has at least one mismatch with

CC respect to the genetic sequence to be altered and further comprises

CC chemical modifications of the oligonucleotide. The chemical modifications

CC consist of o-methyl modification, an LNA modification, two or more

CC phosphorothioate linkages on a terminus, or a combination of any two or

CC more of these modifications. The oligonucleotides are useful for

CC directing repair or alteration of plant genetic information. The

CC oligonucleotides are particularly useful for producing albino mutants for the

CC analysis of photosynthetic processes. This sequence represents a genome

CC nutritional value (e.g. altering amino acid content of plants or
 CC conferring amino acid over production), herbicide resistance (e.g.
 CC glyphosate resistance, imidazolinone and sulphonylurea herbicide
 CC resistance, porphyrin herbicide resistance or triazine resistance),
 CC disease resistance, modified oil production, modified starch production,
 CC morphology (e.g. male-sterile plants) or modified fatty acid content
 CC (e.g. reduced palmitate, increased Stearate or reduced linoleic acid).
 CC The oligonucleotides are also useful for producing albinos mutants for the
 CC analysis of photosynthetic processes. This sequence represents a genome
 CC altering oligonucleotide of the invention.

XX Sequence 17 BP; 3 A; 7 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; ID ABV79110; Mismatches 13; Conservatve 0; Indels 0; Gaps 0;

Or 402 GTCCTCTACGTTGATC 416
 2 GCCTCTACGTTGATC 16

DB 03-JAN-2003 (first entry)

RESULT 1052

ID ABV81930
 ID ABV81930 standard; DNA; 17 BP.

XX ABV81930;

XX DT 25-JAN-2002 (first entry)

DE Rat G-Protein serotonin receptor PCR primer #26.

XX KW Microorganism detection; capture oligonucleotide; probe; cancer; biochip;
 KW polymorphism detection; genetic disease diagnosis; microarray;
 KW PCR primer; ss.

OS Rattus sp.

XX PN WO20017372-A2.

XX PD 18-OCT-2001.

XX PR 26-MAR-2001; 2001WO-BB000053.

XX PR 24-MAR-2000; 2000EP-00870055.

XX PR 15-SEP-2000; 2000EP-00870264.

XX PA (UNNO-) UNIV NOTRE-DAME DE LA PAIX.

XX PI Remacle J, Hamels S, Zammattéo N, Lockman L, Dufour S;

XX PI Alexandre I, De Longueville F;

XX DR WPI; 2002-010921/01.

XX PT Identifying or quantifying organisms or genes, useful e.g. for diagnosis,
 PT by detecting specific nucleotide sequences present among several
 PT homologous sequences.

XX Example 12; Page 39; 56pp; English.

PS The present invention provides a method of identifying or quantitating a
 CC microorganism in a sample by detecting its nucleotide sequence from
 CC amongst homologous sequences. The method can be used to detect
 CC microorganisms and polymorphisms, and to diagnosis generic diseases
 CC including cancer. The present sequence is a PCR primer used in the
 CC exemplification of the invention.

XX Sequence 17 BP; 0 A; 5 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; ID ABV79110; Mismatches 13; Conservatve 0; Indels 0; Gaps 0;

Db 03-JAN-2003 (first entry)

QY 240 GGCCTCTACGTTGATC 254
 Db 3 GGCTCTACGTTGATC 17

RESULT 1053

ID ABV79110
 ID ABV79110 standard; DNA; 17 BP.

XX AC ABV79110;

XX DT 03-JAN-2003 (first entry)

DE Human Hrpl scanning oligonucleotide SEQ ID 356.

XX PN EP1229046-A2.

XX PD 07-AUG-2002.

XX PR 28-JAN-2002; 2002EP-00001167.

XX PR 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.

PR 30-JAN-2001; 2001WO-US000665.

PR 30-JAN-2001; 2001WO-US000667.

PR 30-JAN-2001; 2001WO-US000668.

PR 30-JAN-2001; 2001WO-US000669.

PR 23-MAY-2001; 2001US-00864761.

PR 09-OCT-2001; 2001US-0327898P.

XX PA (AEMC-) AEMC INC.

XX PI Zhan J;

XX DR WPI; 2002-676582/73.

XX PT Novel isolated human testis expressed Patched like protein (Hrpl), useful
 PT for identifying agonist and antagonist and specific binding partners, and
 PT for treating subjects having defects in Hrpl.

XX PS Example 2; Page 110; 71pp; English.

XX The present invention relates to human testis expressed Patched like
 CC protein (Hrpl, see ABV78759 to ABV78762 and ABV989519 to ABV989520). Hrpl
 CC has two isoforms, with a few single base pair differences between the
 CC two. One of the single base pair changes introduces a premature stop
 CC codon in Hrpl-S (S for short) compared to Hrpl-L (L for long). Hrpl
 CC shares an overall structure organisation with the Patched protein. The
 CC shared structural features strongly imply that Hrpl plays a role similar
 CC to that of Patched, and is a potential tumour suppressor. Hrpl is
 CC important in regulating male germ cell development, and the Hrpl gene was
 CC mapped to human chromosome 10p12.1. Hrpl and its coding sequence are
 CC useful for diagnosing a disorder caused by mutation in Hrpl, and in
 CC therapy and manufacture of a medicament for treatment or prevention of
 CC such disorder associated with decreased expression or activity of human
 CC Hrpl. Such disorders include disorders of testis, or adrenal, adult and
 CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,
 CC skeletal muscle or colon function. Hrpl proteins and nucleic acids are
 CC clinically useful diagnostic markers and potential therapeutic agents for
 CC male infertility and cancer. The present oligonucleotide was used in an
 CC example from the invention.

XX Sequence 17 BP; 1 A; 7 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

Qy	138 CGCCCTGGGGGGAG 152	Match 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Score 11.8; DB 1; Length 17;
Db	1 CGCCCTGGGGGGAG 15	Match 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Score 11.8; DB 1; Length 17;
RESULT 1054			
ABV78970/C			
ID ABV78970 standard; DNA; 17 BP.			
XX			
AC ABV78970;			
XX			
DT 03-JAN-2003 (first entry)			
XX			
DE Human HTPL scanning oligonucleotide SEQ ID 216.			
XX			
KW Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;			
KW human testis expressed Patched like protein; testis; adrenal; liver;			
KW male germ cell development; bone marrow; brain; kidney; lung; placenta;			
KW prostate; skeletal muscle; colon; male infertility; cancer; ss.			
OS Homo sapiens.			
XX			
PN EP1229046-A2.			
XX			
PD 07-AUG-2002.			
XX			
PF 2B-JAN-2002; 2002BP-00001167.			
XX			
PR 30-JAN-2001; 2001WO-US000663.			
PR 30-JAN-2001; 2001WO-US000664.			
PR 30-JAN-2001; 2001WO-US000665.			
PR 30-JAN-2001; 2001WO-US000667.			
PR 30-JAN-2001; 2001WO-US000668.			
PR 23-MAY-2001; 2001US-00864751.			
PR 09-OCT-2001; 2001US-0327898P.			
PR XX			
PA (AEOM-) AEOMICA INC.			
XX			
PI Zhan, J;			
XX			
DR WPI; 2002-676582/73.			
XX			
PT Novel isolated human testis expressed Patched like protein (HTPL), useful			
PT for identifying agonist and antagonist and specific binding partners, and			
PT for treating subjects having defects in HTPL.			
PS Example 2; Page 92; 718PP; English.			
XX			
CC The present invention relates to human testis expressed Patched like			
CC protein (HTPL, see ABV78959 to ABV78962 and ABB98519 to ABV789520). HTPL			
CC has two isoforms, with a few single base pair differences between the			
CC two. One of the single base pair changes introduces a premature stop			
CC codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL			
CC shares an overall structure organisation with the Patched protein. The			
CC shared structural features strongly imply that HTPL plays a role similar			
CC to that of Patched, and is a potential tumour suppressor. HTPL is			
CC important in regulating male germ cell development, and the HTPL gene was			
CC mapped to human chromosome 10p12.1. HTPL and its coding sequence are			
CC useful for diagnosing a disorder caused by mutation in HTPL, and in			
CC therapy and manufacture of a medicament for treatment or prevention of			
CC such disorder associated with decreased expression or activity of human			
CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,			
CC skeletal muscle or colon function. HTPL proteins and nucleic acids are			
CC clinically useful diagnostic markers and potential therapeutic agents for			
CC male infertility and cancer. The present oligonucleotide was used in an			
CC example from the invention.			
SQ Sequence 17 BP; 6 A; 7 C; 4 G; 0 T; 0 U; 0 Other;			

Qy	236 GGGAGCTGCTTCCC 250	Query Match 236; Best Local Similarity 86.7%; Score 11.8; DB 1; Length 17;
Db	17 GGCTGGCGCTTGCC 3	Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Indels 2; Gaps 0;
RESULT 1055		
ID ABV79499		
DE ABV79499 standard; DNA; 17 BP.		
XX		
AC ABV79499;		
XX		
DT 03-JAN-2003 (first entry)		
XX		
DE Human HTPL scanning oligonucleotide SEQ ID 745.		
XX		
KW Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;		
KW human testis expressed Patched like protein; testis; adrenal; liver;		
KW male germ cell development; bone marrow; brain; kidney; lung; placenta;		
KW prostate; skeletal muscle; colon; male infertility; cancer; ss.		
XX		
OS Homo sapiens.		
XX		
PN EP1229046-A2.		
XX		
PD 07-AUG-2002.		
XX		
PF 2B-JAN-2002; 2002BP-00001167.		
XX		
PR 30-JAN-2001; 2001WO-US000663.		
PR 30-JAN-2001; 2001WO-US000664.		
PR 30-JAN-2001; 2001WO-US000665.		
PR 30-JAN-2001; 2001WO-US000667.		
PR 30-JAN-2001; 2001WO-US000668.		
PR 30-JAN-2001; 2001WO-US000669.		
PR 23-MAY-2001; 2001US-00864751.		
PR 09-OCT-2001; 2001US-0327898P.		
PR XX		
PA (AEOM-) AEOMICA INC.		
XX		
PI Zhan, J;		
XX		
DR WPI; 2002-676582/73.		
XX		
PT Novel isolated human testis expressed Patched like protein (HTPL), useful		
PT for identifying agonist and antagonist and specific binding partners, and		
PT for treating subjects having defects in HTPL.		
PS Example 2; Page 161; 718PP; English.		
XX		
CC The present invention relates to human testis expressed Patched like		
CC protein (HTPL, see ABV78959 to ABV78962 and ABB98519 to ABV789520). HTPL		
CC has two isoforms, with a few single base pair differences between the		
CC two. One of the single base pair changes introduces a premature stop		
CC codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL		
CC shares an overall structure organisation with the Patched protein. The		
CC shared structural features strongly imply that HTPL plays a role similar		
CC to that of Patched, and is a potential tumour suppressor. HTPL is		
CC important in regulating male germ cell development, and the HTPL gene was		
CC mapped to human chromosome 10p12.1. HTPL and its coding sequence are		
CC useful for diagnosing a disorder caused by mutation in HTPL, and in		
CC therapy and manufacture of a medicament for treatment or prevention of		
CC such disorder associated with decreased expression or activity of human		
CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,		
CC skeletal muscle or colon function. HTPL proteins and nucleic acids are		
CC clinically useful diagnostic markers and potential therapeutic agents for		
CC male infertility and cancer. The present oligonucleotide was used in an		
CC example from the invention.		
SQ Sequence 17 BP; 6 A; 7 C; 4 G; 0 T; 0 U; 0 Other;		

XX SQ Sequence 17 BP; 4 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
 XX Best Local Similarity 86.7%; Pred. No. 5e+02;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 353 CTACAGGACTCT 367
 Db 1 CTACAGGACTCT 15

RESULT 1056
 ABV79553/C
 ID ABV79553 standard; DNA; 17 BP.
 XX
 AC ABV79553;
 XX DT 03-JAN-2003 (first entry)
 XX DB Human HTPL scanning oligonucleotide SEQ ID 799.
 XX KW Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;
 KW human testis expressed Patched like protein; testis; adrenal; liver;
 KW male germ cell development; bone marrow; brain; kidney; lung; placenta;
 KW prostate; skeletal muscle; colon; male infertility; cancer; ss.
 OS Homo sapiens.
 XX PN EP1229046-A2.
 XX PD 07-AUG-2002.
 XX PR 28-JAN-2002; 2002EP-00001167.
 XX PR 30-JAN-2001; 2001WO-US00663.
 XX PR 30-JAN-2001; 2001WO-US00665.
 XX PR 30-JAN-2001; 2001WO-US00667.
 XX PR 30-JAN-2001; 2001WO-US00668.
 XX PR 30-JAN-2001; 2001WO-US00669.
 XX PR 23-MAY-2001; 2001US-US000864761.
 XX PR 09-OCT-2001; 2001US-0327898P.
 XX PA (AEOM-) AEOMICA INC.
 XX PT Zhan, J;
 XX DR WPI; 2002-676582/73.

XX Novel isolated human testis expressed Patched like protein (HTPL), useful
 PT for identifying agonist and antagonist and specific binding partners, and
 PT for treating subjects having defects in HTPL.
 XX Example 2; Page 168; 718pp; English.

The present invention relates to human testis expressed Patched like protein (HTPL, see ABV78759 to ABV7862 and ABV98519 to ABB88520). HTPL has two isoforms, with a few single base pair differences between the two. One of the single base pair changes introduces a premature stop codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL shares structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is important in regulating male germ cell development, and the HTPL gene was mapped to human chromosome 10p12.1. HTPL and its coding sequence are useful for diagnosing a disorder caused by mutation in HTPL, and in such disorder associated with decreased expression or activity of human HTPL. Such disorders include disorders of testis, or adrenal, adult and foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, skeletal muscle or colon function. HTPL proteins and nucleic acids are clinically useful diagnostic markers and potential therapeutic agents for

CC male infertility and cancer. The present oligonucleotide was used in an example from the invention.
 CC SQ Sequence 17 BP; 2 A; 5 C; 8 G; 2 T; 0 U; 0 Other;
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
 XX Best Local Similarity 86.7%; Pred. No. 5e+02;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 373 TCTTGACCGACG 387
 Db 15 TCCGGACCGCCG 1

RESULT 1057
 ABV78972/C
 ID ABV78972 standard; DNA; 17 BP.
 XX AC ABV78972;
 XX DT 03-JAN-2003 (first entry)
 XX DB Human HTPL scanning oligonucleotide SEQ ID 218.
 XX KW Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;
 KW human testis expressed Patched like protein; testis; adrenal; liver;
 KW male germ cell development; bone marrow; brain; kidney; lung; placenta;
 KW prostate; skeletal muscle; colon; male infertility; cancer; ss.
 XX OS Homo sapiens.
 XX PN EP1229046-A2.
 XX PR 28-JAN-2002; 2002EP-00001167.
 XX PR 30-JAN-2001; 2001WO-US00663.
 XX PR 30-JAN-2001; 2001WO-US00064.
 XX PR 30-JAN-2001; 2001WO-US00065.
 XX PR 30-JAN-2001; 2001WO-US00067.
 XX PR 30-JAN-2001; 2001WO-US00068.
 XX PR 30-JAN-2001; 2001WO-US00069.
 XX PR 23-MAY-2001; 2001US-US000864761.
 XX PR 09-OCT-2001; 2001US-0327898P.
 XX PA (AEOM-) AEOMICA INC.
 XX PT Zhan, J;
 XX DR WPI; 2002-676582/73.

XX Novel isolated human testis expressed Patched like protein (HTPL), useful
 PT for identifying agonist and antagonist and specific binding partners, and
 PT for treating subjects having defects in HTPL.
 XX Example 2; Page 92; 718pp; English.

The present invention relates to human testis expressed Patched like protein (HTPL, see ABV78759 to ABV7862 and ABV98519 to ABB88520). HTPL has two isoforms, with a few single base pair differences between the two. One of the single base pair changes introduces a premature stop codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL shares structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is important in regulating male germ cell development, and the HTPL gene was mapped to human chromosome 10p12.1. HTPL and its coding sequence are useful for diagnosing a disorder caused by mutation in HTPL, and in such disorder associated with decreased expression or activity of human HTPL. Such disorders include disorders of testis, or adrenal, adult and foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,

CC skeletal muscle or colon function. HTPL proteins and nucleic acids are
 CC clinically useful diagnostic markers and potential therapeutic agents for
 CC male infertility and cancer. The present oligonucleotide was used in an
 CC example from the invention.
 XX Sequence 17 BP; 4 A; 9 C; 4 G; 0 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Indels 2; Gaps 0;
 Matches 13; Conservative 0; MisMatches 2; Indels 0; Gaps 0;
 Qy 236 GGGACGCTGCCTCCC 250
 Db 15 GGTTGACTGCTGCC 1

RESULT 1058
 ABV79497
 ID ABV79497 standard; DNA; 17 BP.
 XX ABV79497;
 AC XX
 DT 03-JAN-2003 (first entry)
 DE Human HTPL scanning oligonucleotide SEQ ID 743.
 XX Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;
 KW male germ cell development; bone marrow; brain; kidney; lung; placenta;
 KW prostate; skeletal muscle; colon; male infertility; cancer; ss.
 XX Homo sapiens.
 OS XX
 PN EP1229046-A2.
 XX PD 07-AUG-2002.
 XX PR 28-JAN-2002; 2002EP-00001167.
 XX PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 23-MAY-2001; 2001US-00864761.
 PR 09-OCT-2001; 2001US-0327898P.
 PA (AEOM-) AEOMICA INC.
 XX PA
 PI Zhan J;
 XX PI
 DR WPI; 2002-676582/73.

PT Novel isolated human testis expressed Patched like protein (HTPL), useful
 PT for identifying agonist and antagonist and specific binding partners, and
 PT for treating subjects having defects in HTPL.
 PS Example 2; Page 161; 718pp; English.

XX The present invention relates to human testis expressed Patched like
 CC protein (HPL), see ABV78759 to ABV78762 and ABB98519 to ABB98520. HPL
 CC has two isoforms, with a few single base pair differences between the
 CC two. One of the single base pair changes introduces a premature stop
 CC codon in HPL-S (S for short) compared to HPL-L (L for long). HPL
 CC shares an overall structure organisation with the Patched protein. The
 CC shared structural features strongly imply that HPL plays a role similar
 CC to that of Patched, and is a potential tumour suppressor. HPL is
 CC important in regulating male germ cell development, and the HPL gene was
 CC mapped to human chromosome 10p12.1. HPL and its coding sequence are
 CC useful for diagnosing a disorder caused by mutation in HPL, and in
 CC therapy and manufacture of a medicament for treatment or prevention of
 CC such disorder associated with decreased expression or activity of human

CC HPL. Such disorders include disorders of testis, or adrenal, adult and
 CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, skeletal
 CC muscle or colon function. HPL proteins and nucleic acids are
 CC clinically useful diagnostic markers and potential therapeutic agents for
 CC male infertility and cancer. The present oligonucleotide was used in an
 CC example from the invention.
 XX Sequence 17 BP; 4 A; 7 C; 2 G; 4 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Indels 2; Gaps 0;
 Matches 13; Conservative 0; MisMatches 2; Indels 0; Gaps 0;
 Qy 353 CTAGCGCACTCT 367
 Db 3 CTAGCGCACTCT 17

RESULT 1059
 ABV79106
 ID ABV79106 standard; DNA; 17 BP.
 XX ABV79106;
 AC XX
 DT 03-JAN-2003 (first entry)
 DE Human HTPL scanning oligonucleotide SEQ ID 352.
 XX Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;
 KW human testis expressed Patched like protein; testis; adrenal; liver;
 KW male germ cell development; bone marrow; brain; kidney; lung; placenta;
 KW prostate; skeletal muscle; colon; male infertility; cancer; ss.
 XX OS Homo sapiens.
 XX PN EP1229046-A2.
 XX PD 07-AUG-2002.
 XX PR 28-JAN-2002; 2002EP-00001167.
 XX PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-3500067.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 30-JAN-2001; 2001WO-US000670.
 PR 30-JAN-2001; 2001US-00864761.
 PR 09-OCT-2001; 2001US-0327898P.
 PA (AEOM-) AEOMICA INC.
 XX PA
 PI Zhan J;
 XX PI
 DR WPI; 2002-676582/73.

PT Novel isolated human testis expressed Patched like protein (HTPL), useful
 PT for identifying agonist and antagonist and specific binding partners, and
 PT for treating subjects having defects in HTPL.
 PS Example 2; Page 109; 718pp; English.

XX The present invention relates to human testis expressed Patched like
 CC protein (HPL), see ABV78759 to ABV78762 and ABB98519 to ABB98520. HPL
 CC has two isoforms, with a few single base pair differences between the
 CC two. One of the single base pair changes introduces a premature stop
 CC codon in HPL-S (S for short) compared to HPL-L (L for long). HPL
 CC shares an overall structure organisation with the Patched protein. The
 CC shared structural features strongly imply that HPL plays a role similar
 CC to that of Patched, and is a potential tumour suppressor. HPL is
 CC important in regulating male germ cell development, and the HPL gene was
 CC mapped to human chromosome 10p12.1. HPL and its coding sequence are
 CC useful for diagnosing a disorder caused by mutation in HPL, and in

CC therapy and manufacture of a medicament for treatment or prevention of
 CC such disorder associated with decreased expression or activity of human
 CC HrPL. Such disorders include disorders of testis, or adrenal, adult and
 CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, and
 CC skeletal muscle or colon function. HrPL proteins and nucleic acids are
 CC clinically useful diagnostic markers and potential therapeutic agents for
 CC male infertility and cancer. The present oligonucleotide was used in an
 CC example from the invention.

SQ

Sequence 17 BP; 1 A; 9 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Prod. No. 5e+02; Mismatches 0; Indels 0; Gaps 0;

QY 136 cccgcctcgatgg 150

Db 3 cccgcctcgatgg 17

RESULT 1060

ABV78971/c

XX

ID ABV78971 standard; DNA; 17 BP.

XX

AC ABV78971;

XX

DT 03-JAN-2003 (first entry)

XX

DE Human HrPL scanning oligonucleotide SEQ ID 217.

XX

KW Human; Gene therapy; tumour suppressor; HrPL; chromosome 10p12.1;

XX

KW human; testis expressed; Patched like protein; testis; adrenal; liver;

XX

KW male germ cell development; bone marrow; brain; kidney; lung; placenta;

XX

KW prostate; skeletal muscle; colon; male infertility; cancer; SB.

OS Homo sapiens.

XX

PN EP1229046-A2.

XX

PD 07-AUG-2002.

XX

PP 28-JAN-2002; 2002EP-00001167.

XX

PR 30-JAN-2001; 2001WO-US000633.

XX

PR 30-JAN-2001; 2001WO-US00064.

XX

PR 30-JAN-2001; 2001WO-US00065.

XX

PR 30-JAN-2001; 2001WO-US000657.

XX

PR 30-JAN-2001; 2001WO-US000668.

XX

PR 23-MAY-2001; 2001US-00864751.

XX

PR 09-OCT-2001; 2001US-0327898P.

XX

PA (AEOM-) AEONICA INC.

XX

PI Zhan J;

XX

WPI; 2002-676582/73.

XX

DR

PR

07-AUG-2002.

XX

ID ABV79498

XX

AC ABV79498;

XX

DT 03-JAN-2003 (first entry)

XX

DE Human HrPL scanning oligonucleotide SEQ ID 744.

XX

KW Human; gene therapy; tumour suppressor; HrPL; chromosome 10p12.1;

XX

KW human; testis expressed; Patched like protein; testis; adrenal; liver;

XX

KW male germ cell development; bone marrow; brain; kidney; lung; placenta;

XX

KW prostate; skeletal muscle; colon; male infertility; cancer; SB.

OS Homo sapiens.

XX

PN EP1229046-A2.

XX

PD 07-AUG-2002.

XX

PR 28-JAN-2002; 2002EP-00001167.

XX

PR 30-JAN-2001; 2001WO-US000663.

XX

PR 30-JAN-2001; 2001WO-US000664.

XX

PR 30-JAN-2001; 2001WO-US000665.

XX

PR 30-JAN-2001; 2001WO-US000666.

XX

PR 30-JAN-2001; 2001WO-US000669.

XX

PR 23-MAY-2001; 2001US-00864761.

XX

PR 09-OCT-2001; 2001US-0327898P.

XX

PA (AEOM-) AEONICA INC.

XX

PI Zhan J;

XX

WPI; 2002-676582/73.

XX

DR

PR

07-AUG-2002.

XX

ID ABV79498

XX

AC ABV79498;

XX

DT 03-JAN-2003 (first entry)

XX

DE Human HrPL scanning oligonucleotide SEQ ID 744.

XX

KW Human; gene therapy; tumour suppressor; HrPL; chromosome 10p12.1;

XX

KW human; testis expressed; Patched like protein; testis; adrenal; liver;

XX

KW male germ cell development; bone marrow; brain; kidney; lung; placenta;

XX

KW prostate; skeletal muscle; colon; male infertility; cancer; SB.

OS Homo sapiens.

XX

PN EP1229046-A2.

XX

PD 07-AUG-2002.

XX

PR 28-JAN-2002; 2002EP-00001167.

XX

PR 30-JAN-2001; 2001WO-US000663.

XX

PR 30-JAN-2001; 2001WO-US000664.

XX

PR 30-JAN-2001; 2001WO-US000665.

XX

PR 30-JAN-2001; 2001WO-US000666.

XX

PR 30-JAN-2001; 2001WO-US000669.

XX

PR 23-MAY-2001; 2001US-00864761.

XX

PR 09-OCT-2001; 2001US-0327898P.

XX

PA (AEOM-) AEONICA INC.

XX

PI Zhan J;

XX

WPI; 2002-676582/73.

XX

DR

PR

07-AUG-2002.

XX

ID ABV79498

XX

AC ABV79498;

XX

DT 03-JAN-2003 (first entry)

XX

DE Human HrPL scanning oligonucleotide SEQ ID 744.

XX

KW Human; gene therapy; tumour suppressor; HrPL; chromosome 10p12.1;

XX

KW human; testis expressed; Patched like protein; testis; adrenal; liver;

XX

KW male germ cell development; bone marrow; brain; kidney; lung; placenta;

XX

KW prostate; skeletal muscle; colon; male infertility; cancer; SB.

OS Homo sapiens.

XX

PN EP1229046-A2.

XX

PD 07-AUG-2002.

XX

PR 28-JAN-2002; 2002EP-00001167.

XX

PR 30-JAN-2001; 2001WO-US000663.

XX

PR 30-JAN-2001; 2001WO-US000664.

XX

PR 30-JAN-2001; 2001WO-US000665.

XX

PR 30-JAN-2001; 2001WO-US000666.

XX

PR 30-JAN-2001; 2001WO-US000669.

XX

PR 23-MAY-2001; 2001US-00864761.

XX

PR 09-OCT-2001; 2001US-0327898P.

XX

PA (AEOM-) AEONICA INC.

XX

PI Zhan J;

XX

WPI; 2002-676582/73.

XX

DR

PR

07-AUG-2002.

XX

ID ABV79498

XX

AC ABV79498;

XX

DT 03-JAN-2003 (first entry)

XX

DE Human HrPL scanning oligonucleotide SEQ ID 744.

XX

KW Human; gene therapy; tumour suppressor; HrPL; chromosome 10p12.1;

XX

KW human; testis expressed; Patched like protein; testis; adrenal; liver;

XX

KW male germ cell development; bone marrow; brain; kidney; lung; placenta;

XX

KW prostate; skeletal muscle; colon; male infertility; cancer; SB.

OS Homo sapiens.

XX

PN EP1229046-A2.

XX

PD 07-AUG-2002.

XX

PR 28-JAN-2002; 2002EP-00001167.

XX

PR 30-JAN-2001; 2001WO-US000663.

XX

PR 30-JAN-2001; 2001WO-US000664.

XX

PR 30-JAN-2001; 2001WO-US000665.

XX

PR 30-JAN-2001; 2001WO-US000666.

XX

PR 30-JAN-2001; 2001WO-US000669.

XX

PR 23-MAY-2001; 2001US-00864761.

XX

PR 09-OCT-2001; 2001US-0327898P.

XX

PA (AEOM-) AEONICA INC.

XX

PI Zhan J;

XX

WPI; 2002-676582/73.

XX

DR

PR

07-AUG-2002.

XX

ID ABV79498

XX

AC ABV79498;

XX

DT 03-JAN-2003 (first entry)

XX

DE Human HrPL scanning oligonucleotide SEQ ID 744.

XX

KW Human; gene therapy; tumour suppressor; HrPL; chromosome 10p12.1;

XX

KW human; testis expressed; Patched like protein; testis; adrenal; liver;

XX

KW male germ cell development; bone marrow; brain; kidney; lung; placenta;

XX

KW prostate; skeletal muscle; colon; male infertility; cancer; SB.

OS Homo sapiens.

XX

PN EP1229046-A2.

XX

PD 07-AUG-2002.

XX

PR 28-JAN-2002; 2002EP-00001167.

XX

PR 30-JAN-2001; 2001WO-US000663.

XX

PR 30-JAN-2001; 2001WO-US000664.

XX

PR 30-JAN-2001; 2001WO-US000665.

XX

PR 30-JAN-2001; 2001WO-US000666.

XX

PR 30-JAN-2001; 2001WO-US000669.

XX

PR 23-MAY-2001; 2001US-00864761.

XX

PR 09-OCT-2001; 2001US-0327898P.

XX

PA (AEOM-) AEONICA INC.

XX

PI Zhan J;

CC to that of Patched, and is a potential tumour suppressor. HTPL is
 CC important in regulating male germ cell development, and the HTPL gene was
 CC mapped to human chromosome 10p12.1. HTPL and its coding sequence are
 CC useful for diagnosing a disorder caused by mutation in HTPL, and in
 CC therapy and manufacture of a medicament for treatment or prevention of
 CC such disorder associated with decreased expression or activity of human
 CC HTPL. Such disorders include disorders of testis, or adrenal, adult and
 CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,
 CC skeletal muscle or colon function. HTPL protein and nucleic acids are
 CC clinically useful diagnostic markers and potential therapeutic agents for
 CC male infertility and cancer. The present oligonucleotide was used in an
 CC example from the invention

SQ

Sequence 17 BP; 4 A; 7 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 353 CTACAGCGACTCT 367
 Db 2 CTACAGCGACTCT 16

RESULT 1062

ABV79552/C

ID ABV79552 standard; DNA; 17 BP.

XX

AC ABV79552;

XX

DT 03-JAN-2003 (first entry)

XX

DB Human HTPL scanning oligonucleotide SEQ ID 798.

XX

KW Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;
 KW human testis expressed Patched like protein; testis; adrenal; liver;
 KW male germ cell development; bone marrow; brain; kidney; lung; placenta;
 KW prostate; skeletal muscle; colon; male infertility; cancer; ss.
 OS Homo sapiens.

XX

EP1229046 A2.

XX

PD 07-AUG-2002.

XX

PP 28-JAN-2002; 2002EP-00001167.

XX

PR 30-JAN-2001; 2001WO-US000663.

XX

PR 30-JAN-2001; 2001WO-US000664.

XX

PR 30-JAN-2001; 2001WO-US000665.

XX

PR 30-JAN-2001; 2001WO-US000666.

XX

PR 30-JAN-2001; 2001WO-US000667.

XX

PR 30-JAN-2001; 2001WO-US000668.

XX

PR 23-MAY-2001; 2001US-00864761.

XX

PR 09-OCT-2001; 2001US-0327898P.

XX

(AEOM-) AEOMICA INC.

XX

PT Zhan J;

XX

WPI; 2002-676582/73.

XX

Novel isolated human testis expressed Patched like protein (HTPL), useful
 PT for identifying agonist and antagonist and specific binding partners, and
 PT for treating subjects having defects in HTPL.

XX

Example 2; Page 168; 718pp; English.

XX

The present invention relates to human testis expressed Patched like
 CC protein (HTPL, see ABV78759 to ABV7862 and ABV98519 to ABB8520). HTPL
 CC has two isoforms, with a few single base pair differences between the
 CC two. One of the single base pair changes introduces a premature stop
 codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL

CC shares an overall structure organisation with the Patched protein. The
 CC shared structural features strongly imply that HTPL plays a role similar
 CC to that of Patched, and is a potential tumour suppressor. HTPL is
 CC important in regulating male germ cell development, and the HTPL gene was
 CC mapped to human chromosome 10p12.1. HTPL and its coding sequence are
 CC useful for diagnosing a disorder caused by mutation in HTPL, and in
 CC therapy and manufacture of a medicament for treatment or prevention of
 CC such disorder associated with decreased expression or activity of human
 CC HTPL. Such disorders include disorders of testis, or adrenal, adult and
 CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,
 CC skeletal muscle or colon function. HTPL proteins and nucleic acids are
 CC clinically useful diagnostic markers and potential therapeutic agents for
 CC male infertility and cancer. The present oligonucleotide was used in an
 CC example from the invention.

SQ

Sequence 17 BP; 3 A; 4 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 373 TCTCTGACCGCGACG 387
 Db 16 TCCCTGACCGCGCG 2

RESULT 1063

ABK18724

ID ABK18724 standard; RNA; 17 BP.

XX

AC ABK18724;

XX

DT 09-APR-2002 (first entry)

XX

DE Human ERG DNazyme target sequence Seq ID No 1371.

XX

KW Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;
 KW optophthalmological; antiarthritic; antisporic; virucide; osteopathic;
 KW vulvovaginal; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;
 KW Sturge Weber Syndrome; Kippel-Trenaunay-Weber Syndrome; leukaemia; ss;
 KW Osler-Weber-Reynaud syndrome; leukaemia; osteoporosis; DNazyme; inozyme;
 KW amberyne.

XX

OS Homo sapiens.

XX

WO20018124 A2.

XX

PD 22-NOV-2001.

XX

PP 16-MAY-2001; 2001WO-US015866.

XX

PP 16-MAY-2000; 2000US-00572021.

XX

(RIBO-) RIBOZYME PHARM INC.

PA (GLAXO) GLAXO GROUP LTD.

XX

Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;

XX

DR WPI; 2002-082995/11.

XX

Novel polynucleotide which down regulates expression of Bta-related gene,
 PT useful for treating cancer, diabetic retinopathy, macular degeneration,
 PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.

XX

Claim 4; Page 89; 149pp; English.

PS

The invention relates to a nucleic acid molecule (I) which down regulates
 CC expression of an Bta-related gene (ERG). (I) is useful for treating
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,

CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
 CC treating a patient having a condition associated with the level of ERG,
 CC by contacting cells of the patient with (I) under conditions suitable for
 CC the treatment. The method comprises the use of one or more therapies
 CC under conditions suitable for the treatment. Leukaemia or tumour
 CC angiogenesis is treated by administering (I) to the patient in
 CC conjunction with one or more of other therapies such as radiation or
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent
 CC cation such as Mg²⁺. (I) is useful for diagnosis of conditions and
 CC diseases related to the expression of ERG, and as diagnostic tool to
 CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ERG RNA in a cell. (I) is useful for specifically
 CC targeting genes that share homology with ERG gene or ERG fusion genes.
 CC ABK1734-ABK22719 represent nucleic acids, including antisense and
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and
 CC related PCR primers of the invention

SQ Sequence 17 BP; 3 A; 7 C; 6 G; 0 T; 1 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0; Gaps 0;

QY 383 CGACGACGGCCAA 397
 1 CGACGGCGCGCTAA 15

DP

RESULT 1064

ID ABK19125 standard; RNA; 17 BP.

XX ABK19125;

AC AC

DT 09-APR-2002 (first entry)

XX Human ERG Amberzyme target sequence Seq ID No 172.

XX Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;
 KW ophthalmological; antiarthritic; antisporic; virucide; osteopathic;
 KW vulnerability; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 KW angiobifibroma of tuberous sclerosis; port-wine stain; wound healing;
 KW Sturge-Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
 KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNazyme; inozyme;
 KW amberzyme.
 OS Homo sapiens.

XX WO200188124-A2.

PR 22-NOV-2001.

XX 16-MAY-2001; 2001WO-US015866.

XX 16-MAY-2000; 2000US-00572021.

PA (RIBO-) RIBOZYME PHARM INC.

XX PA (GLAX) GLAXO GROUP LTD.

PT Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;

XX WPI; 2002-082995/11.

XX Novel polynucleotide which down regulates expression of Bbs-related gene,
 PT useful for treating cancer, diabetic retinopathy, macular degeneration,
 arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.

XX Claim 4; Page 120; 149PP; English.

PS The invention relates to a nucleic acid molecule (I) which down regulates
 XX expression of an Bts-related gene (ERG). (I) is useful for treating
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
 CC treating a patient having a condition associated with the level of ERG,
 CC by contacting cells of the patient with (I) under conditions suitable for
 CC the treatment. The method comprises the use of one or more therapies
 CC under conditions suitable for the treatment. Leukaemia or tumour
 CC angiogenesis is treated by administering (I) to the patient in
 CC conjunction with one or more of other therapies such as radiation or
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent
 CC cation such as Mg²⁺. (I) is useful for diagnosis of conditions and
 CC diseases related to the expression of ERG, and as diagnostic tool to
 CC examine genetic drift and mutations within diseased cells or to detect
 CC the presence of ERG RNA in a cell. (I) is useful for specifically
 CC targeting genes that share homology with ERG gene or ERG fusion genes.
 CC ABK1734-ABK22719 represent nucleic acids, including antisense and
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and
 CC related PCR primers of the invention

SQ Sequence 17 BP; 3 A; 7 C; 6 G; 0 T; 1 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0; Gaps 0;

QY 383 CGACGACGGCCAA 397
 2 CGACGGCGCGCTAA 16

DP

RESULT 1065

ID ABK17730/C
 XX ABK17730 standard; RNA; 17 BP.

AC AC

DT 09-APR-2002 (first entry)

XX Human ERG hammerhead ribozyme target sequence, Seq ID No 377.

XX Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;
 KW ophthalmological; antiarthritic; antisporic; virucide; osteopathic;
 KW vulnerability; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;
 KW angiobifibroma of tuberous sclerosis; port-wine stain; wound healing;
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;
 KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNazyme; inozyme;
 KW amberzyme.
 OS Homo sapiens.

XX WO200188124-A2.

PR 22-NOW-2001.

XX 16-MAY-2001; 2001WO-US015866.

XX 16-MAY-2000; 2000US-00572021.

PA (RIBO-) RIBOZYME PHARM INC.

XX PA (GLAX) GLAXO GROUP LTD.

PT Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;

XX WPI; 2002-082995/11.

XX Novel polynucleotide which down regulates expression of Bbs-related gene,
 PT useful for treating cancer, diabetic retinopathy, macular degeneration,
 arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.

PI	Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;	PR	30-JAN-2001; 2001WO-US000667.
XX	WPI; 2002-082995/11.	DR	30-JAN-2001; 2001WO-US000668.
PT	Novel polynucleotide which down regulates expression of Ets-related gene, useful for treating cancer, diabetic retinopathy, macular degeneration, arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.	PR	30-JAN-2001; 2001WO-US000669.
PT	arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.	PR	23-MAY-2001; 2001US-00564761.
XX		PR	10-OCT-2001; 2001US-0328205P.
PS	Claim 4; Page 65; 149pp; English.	PA	(AEOM-) AEOMICA INC.
XX	The invention relates to a nucleic acid molecule (I) which down regulates expression of an Ets-related gene (ERG). (I) is useful for treating conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma, tumour angiogenesis, diabetic retinopathy, macular degeneration, neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for treating a patient having a condition associated with the level of ERG, by contacting cells of the patient with (I) under conditions suitable for the treatment. The method comprises the use of one or more therapies under conditions suitable for the treatment. Leukaemia or tumour angiogenesis is treated by administering (I) to the patient in conjunction with one or more of other therapies such as radiation or chemotherapy treatment. (I) is useful for reducing ERG activity in a cell, by contacting the cell with (I). (I) is useful for cleaving RNA of ERG gene, by contacting (I) with RNA, in the presence of a divalent cation such as Mg ²⁺ . (I) is useful for diagnosis of conditions and diseases related to the expression of ERG, and as diagnostic tool to examine genetic drift and mutations within diseased cells or to detect the presence of ERG RNA in a cell. (I) is useful for specifically targeting genes that share homology with ERG gene or ERG fusion genes. ABK1735-ABK2719 represent nucleic acids, including antisense and enzymatic nucleic acid molecules which regulate expression of ERG, and related PCR primers of the invention.	PI	Shannon M;
SQ	Sequence 17 BP; 1 A; 4 C; 6 G; 0 T; 6 U; 0 Other;	XX	WPI; 2002-684061/74.
Query Match	2 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	CC	Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide, POSH1 protein 1 (POSH1), polypeptide (I), comprising a sequence of 730 amino acids (S1, ABP83999), a sequence having 65% sequence identity to (S1), (I) having 95% deviations, especially conservative substitutions or a fragment of the sequences comprising at least 8 contiguous amino acids.
Qy	393 GCCAAGAGCTTC 407	CC	Human POSH1 is a proto-oncogene/oncogene product that functions as an adaptor protein that interacts with Rho family small GTPases as well as downstream components of the signal transduction pathway. (I) is useful for identifying a specific binding partner. (I) and nucleic acids (II) encoding (I) are useful for diagnosing, monitoring disease and treating diseases related to the expression of ERG, and as diagnostic tool to examine genetic drift and mutations within diseased cells or to detect the presence of ERG RNA in a cell. (I) is useful for constructing microarrays which are useful for measuring and for surveying gene expression and creating transgenic non-human animals capable of producing the proteins. The present sequence is that of a scanning oligonucleotide useful in examples of the invention. Note: The present sequence did not form part of the printed specification, but is based on sequence information supplied to Derwent by the European Patent Office
Db	15 GCGAAGAAGGCCATC 1	CC	Sequence 17 BP; 2 A; 3 C; 8 G; 4 T; 0 U; 0 Other;
RESULT 1066	ABV91236/C	XX	SQ
ID	ABV91236 standard; DNA; 17 BP.	AC	Sequence 17 BP; 2 A; 3 C; 8 G; 4 T; 0 U; 0 Other;
XX		AC	Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
DT	23-DEC-2002 (first entry)	XX	Query Match
XX	Human POSH1 scanning oligonucleotide SEQ ID NO 1949.	AC	2 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
DE	Human POSH1 scanning oligonucleotide SEQ ID NO 1949.	XX	Db
XX	KW Human; POSH1; SH3 domain; POSH-like signalling protein 1; oncogene; gene therapy; transgenic; ss.	AC	92 CATCACCACTCTGA 106
OS	Homo sapiens.	XX	15 GACCAACACGGCTGA 1
XX	EPI1239051-A2.	AC	RESULT 1067
PD	11-SEP-2002.	XX	ABV91234/C
PF	28-JAN-2002; 2002EP-00001165.	XX	ID 1 ABV91234 standard; DNA; 17 BP.
XX		AC	ABV91234;
XX	23-DEC-2002 (first entry)	XX	XX
DT		DE	Human POSH1 scanning oligonucleotide SEQ ID NO 1947.
XX		XX	KW Human; POSH1; SH3 domain; POSH-like signalling protein 1; oncogene; gene therapy; transgenic; ss.
XX	Rho GTPase; signal transduction; gene expression; cancer; vaccine; Homo sapiens.	XX	KW Rho GTPase; signal transduction; gene expression; cancer; vaccine; gene therapy; transgenic; ss.
PN	EPI1239051-A2.	OS	OS Homo sapiens.
XX		XX	EPI1239051-A2.
PD	11-SEP-2002.	XX	
PF	28-JAN-2002; 2002EP-00001165.	XX	
XX		PP	28-JAN-2002; 2002EP-00001165.
PR	30-JAN-2001; 2001WO-US000663.	XX	30-JAN-2001; 2001WO-US000664.
PR	30-JAN-2001; 2001WO-US000664.	XX	30-JAN-2001; 2001WO-US000665.
PR	30-JAN-2001; 2001WO-US000665.	XX	30-JAN-2001; 2001WO-US000666.
PR	30-JAN-2001; 2001WO-US000666.	XX	

PR 30-JAN-2001; 2001WO-US0000564.
 PR 30-JAN-2001; 2001WO-US0000565.
 PR 30-JAN-2001; 2001WO-US0000567.
 PR 30-JAN-2001; 2001WO-US0000568.
 PR 30-JAN-2001; 2001WO-US0000569.
 PR 30-JAN-2001; 2001WO-US0000670.
 PR 23-MAY-2001; 2001US-00864761.
 PR 10-OCT-2001; 2001US-0328205P.
 XX (AEOM-) ABOMICA INC.
 XX PT Shannon M;
 XX DR WPI; 2002-684061/74.
 XX PT Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide, POSH
 -1, useful for treating disorders associated with decreased expression or
 activity of human POSH1.
 XX Example 2; SEQ ID NO 1947; 60PP + Sequence Listing; English.
 CC The invention relates to an isolated SH3 domain (POSH)-like signalling
 protein 1 (POSH1) polypeptide (I), comprising a sequence of 730 amino
 acids (SI, ABB8399), a sequence having 65% sequence identity to (SI),
 CC having 95% deviations, especially conservative substitutions or a
 fragment of the sequences comprising at least 8 contiguous amino acids.
 Human POSH1 is a proto-oncogene/oncogene product that functions as an
 adaptor protein that interacts with Rho family small GTPases as well as an
 adaptor protein that interacts with the signal transduction pathway. (I) is useful
 for identifying a specific binding partner. (II) and nucleic acids (II)
 encoding (I) are useful for diagnosing, monitoring disease and treating
 cancer, they useful in the development of vaccines and microarrays which
 are useful for measuring and for surveying gene expression and creating
 transgenic non-human animals capable of producing the proteins. The
 present sequence is that of a scanning oligonucleotide useful in examples
 of the invention. Note: The present sequence did not form part of the
 printed specification, but is based on sequence information supplied to
 Derwent by the European Patent Office
 Sequence 17 BP; 1 A; 5 C; 7 G; 4 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 OY Db 17 CACCAACACGGTGA 3
 RESULT 1068
 ABV91235C
 ID ABV91235 standard; DNA; 17 BP.
 XX AC ABV91235;
 XX DT 23-DEC-2002 (first entry)
 XX DE Human POSH1 scanning oligonucleotide SEQ ID NO 1948.
 KW Human; POSH1; SH3 domain; POSH-like signalling protein 1; oncogene;
 KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
 KW gene therapy; transgenic; ss.
 KW Homo sapiens.
 PN EP1239051-A2.
 XX PD 11-SEP-2002.
 XX PR 28-JAN-2002; 2002EP-00001165.
 PP XX
 PR 30-JAN-2001; 2001WO-US0000563.
 PR 30-JAN-2001; 2001WO-US0000664.
 PR 30-JAN-2001; 2001WO-US0000665.
 PR 30-JAN-2001; 2001WO-US0000666.
 PR 30-JAN-2001; 2001WO-US0000667.
 PR 30-JAN-2001; 2001WO-US0000668.
 PR 30-JAN-2001; 2001WO-US0000669.
 PR 30-JAN-2001; 2001WO-US0000670.
 PR 23-MAY-2001; 2001US-00864761.
 PR 10-OCT-2001; 2001US-0328205P.
 PR 30-JAN-2001; 2001WO-US0000670.
 PR 23-MAY-2001; 2001US-00864761.
 PR 10-OCT-2001; 2001US-0328205P.
 XX (AEOM-) ABOMICA INC.
 XX PT Shannon M;
 XX DR WPI; 2002-684061/74.
 XX PT Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide, POSH
 -1, useful for treating disorders associated with decreased expression or
 activity of human POSH1.
 XX Example 2; SEQ ID NO 1948; 60PP + Sequence Listing; English.
 CC The invention relates to an isolated SH3 domain (POSH)-like signalling
 protein 1 (POSH1) polypeptide (I), comprising a sequence of 730 amino
 acids (SI, ABB8399), a sequence having 65% sequence identity to (SI),
 CC having 95% deviations, especially conservative substitutions or a
 fragment of the sequences comprising at least 8 contiguous amino acids.
 Human POSH1 is a proto-oncogene/oncogene product that functions as an
 adaptor protein that interacts with Rho family small GTPases as well as an
 adaptor protein that interacts with the signal transduction pathway. (I) is useful
 for identifying a specific binding partner. (II) and nucleic acids (II)
 encoding (I) are useful for diagnosing, monitoring disease and treating
 cancer, they useful in the development of vaccines and (II) is
 useful in gene therapy. (II) is useful for constructing microarrays which
 are useful for measuring and for surveying gene expression and creating
 transgenic non-human animals capable of producing the proteins. The
 present sequence is that of a scanning oligonucleotide useful in examples
 of the invention. Note: The present sequence did not form part of the
 printed specification, but is based on sequence information supplied to
 Derwent by the European Patent Office
 Sequence 17 BP; 1 A; 4 C; 8 G; 4 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 OY Db 16 CACCAACACGGTGA 2
 RESULT 1069
 ABL31714
 ID ABL31714 standard; DNA; 17 BP.
 XX AC ABL31714;
 XX DT 21-MAR-2002 (first entry)
 DE Human HLA genotyping oligonucleotide SEQ ID NO 1203.
 KW Human; human Leukocyte antigen; HLA; genotype; polymorphism;
 KW immunogenetic; transplantation; genetic disease; ss.
 KW Homo sapiens.
 OS EP1239051-A2.
 XX PN WO200192572-A1.
 XX

PD 06-DBSC-2001.
 XX
 PR 01-JUN-2001; 2001WO-JP004662.
 XX
 PT 01-JUN-2000; 2000JP-00164798.
 XX
 PA (NISN) NISSHINBO IND INC.
 PA (SYST-) SYSTEM RES INC.
 XX
 PI Inoko H., Kagiya T., Ichihara T., Mattumura Y., Moriya S., Nishida M.;
 XX
 WPI; 2002-122074/16.
 XX
 Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of individuals e.g., by determining immunogenetic differences when transplanting between them.
 XX
 Claim 10; Page 321; 345pp; Japanese.
 XX
 The invention relates to a typing kit for judging human leukocyte antigen (HLA) genotype of a sample by hybridising a substrate on which 10-4 base oligonucleotides (AB30512-AB31809) originating in the sequences of genes e.g. belonging to HLA class I antigens on human genome and containing gene polymorphisms as alloantigens have been immobilised as primers for amplification of cleaved nucleic acids relating to gene polymorphisms. The method is useful for judging HLA genotypes of individuals by determining immunogenetic differences before transplanting between them, providing genetic information to decide compatibility of organ and tissue for transplantation e.g. of bone marrow, kidney, liver, pancreas, Langerhans islet in pancreas and cornea, susceptibility diagnosis of genetic diseases and identifying individuals
 XX
 Sequence 17 BP; 6 A; 5 C; 6 G; 0 T; 0 U; 0 Other;
 XX
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX
 Qy 176 CGAGCTCAGGACA 190
 Db 2 CAAGGCCAGGACA 16
 XX
 RESULT 1070
 ID ABK5649/c
 ID ABK5649 standard; RNA; 17 BP.
 AC
 AC ABK5649;
 DT 02-JUL-2002 (first entry)
 DE Human CLCA1 gene enzymatic nucleic acid #1220.
 XX
 Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic; antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma; chronic bronchitis; cystic fibrosis; obstructive bowel syndrome; chronic oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic; acetylcysteine.
 XX
 Homo sapiens.
 XX
 PN WO200211674-A2.
 XX
 PD 14-FEB-2002.
 XX
 PR 09-AUG-2001; 2001WO-US024970.
 XX
 PR 09-AUG-2000; 2000US-0224383P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (SYNT-) SYNTEX USA LLC.
 PA (THOM/) THOMPSON J.
 XX
 PI Thompson J., Mcswiggen J., McKenzie T., Ayers D., Szymkowski DE;
 PI Gruppe A;
 XX
 DR WPI; 2002-217145/27.
 XX
 PT Enzymatic polynucleotide that down regulates expression of chloride channel calcium activated gene, useful for treating Chronic obstructive pulmonary disease (COPD), chronic bronchitis and asthma.
 XX
 PT pulmonary disease (COPD), chronic bronchitis and asthma.
 XX
 PS Claim 4; Page 84; 152pp; English.
 XX
 The invention relates to enzymatic nucleic acid molecules that down regulate expression of chloride channel calcium activated 1 (CLCA1) genes by cleaving RNA derived from the genes. The nucleic acid sequences are useful as pharmaceutical agents for treating conditions such as chronic obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic fibrosis, obstructive bowel syndrome and any other diseases or conditions that are related to or will respond to the levels of CLCA1 in a cell or tissue. The sequences are useful for reducing CLCA1 activity in a cell, hence, are useful for treatment of a patient having a condition associated with the level of CLCA1, where the invention further comprises the use of one or more therapies under conditions suitable for the treatment, for example, oxygen therapy, bronchodilators, corticosteroids, antibiotics, vaccinations, acetylcysteine and mucokinetic agents. The nucleic acids of the invention are also used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of CLCA1 RNA in a cell. This sequence represents an enzymatic nucleic acid molecule of the invention
 XX
 Sequence 17 BP; 3 A; 7 C; 2 G; 0 T; 5 U; 0 Other;
 XX
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX
 Qy 11 GAAACTGGCGGTAC 25
 Db 16 GAAATGGGGTAC 2
 XX
 RESULT 1071
 ID ABK5624/c
 ID ABK5624 standard; RNA; 17 BP.
 AC
 AC ABK5624;
 DT 02-JUL-2002 (first entry)
 DE Human CLCA1 gene enzymatic nucleic acid #613.
 XX
 Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic; antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma; chronic bronchitis; cystic fibrosis; obstructive bowel syndrome; chronic oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic; acetylcysteine.
 XX
 Homo sapiens.
 XX
 PN WO200211674-A2.
 XX
 PD 14-FEB-2002.
 XX
 PR 09-AUG-2001; 2001WO-US024970.
 XX
 PR 09-AUG-2000; 2000US-0224383P.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (SYNT-) SYNTEX USA LLC.
 PA (THOM/) THOMPSON J.
 XX
 PI Thompson J., Mcswiggen J., McKenzie T., Ayers D., Szymkowski DE;
 PI Gruppe A;

DR WPI; 2002-217145/27.

PT PT

PT Enzymatic polynucleotide that down regulates expression of chloride channel calcium activated gene, useful for treating Chronic obstructive pulmonary disease (COPD), chronic bronchitis and asthma.

PS XX

Claim 4; Page 65; 152pp; English.

CC The invention relates to enzymatic nucleic acid molecules that down regulate expression of chloride channel calcium activated 1 (CLCA1) genes by cleaving RNA derived from the genes. The nucleic acid sequences are useful as pharmaceutical agents for treating conditions such as chronic obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic fibrosis, obstructive bowel syndrome and any other diseases or conditions that are related to or will respond to the levels of CLCA1 in a cell or tissue. The sequences are useful for reducing CLCA1 activity in a cell, hence, are useful for treatment of a patient having a condition associated with the level of CLCA1, where the invention further comprises the use of one or more therapies under conditions suitable for the treatment, for example, oxygen therapy, bronchodilators, corticosteroids, antibiotics, vaccinations, acetylcysteine and mucokinetic agents. The nucleic acids of the invention are also used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect enzymatic nucleic acid molecule of the invention.

SQ Sequence 17 BP; 3 A; 6 C; 2 G; 0 T; 6 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 11 GAACCTGGGTGAC 25
Db 17 GAAATGGGGTAC 3

RESULT 1072

ID ABZ95233
ID ABZ95233 standard; DNA; 17 BP.

AC XX

AC ABZ95233;

XX DT 17-OCT-2003 (first entry)

XX DE Human IL3 receptor antisense fragment no.1097.

XX KW Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; adenosine receptor; bronchodilation; bronchoconstriction; lung; allergy; lung inflammation; respiratory disease; db. Homo sapiens.

OS Homo sapiens.

XX PD WO2002085308-A2.

XX PD 31-OCT-2002.

XX PF 23-APR-2002; 2002WO-US013135.

XX PR 24-APR-2001; 2001US-0286137P.

XX PA (EPIC-) EPIGENESIS PHARM INC.

PA XX

PA NYCE JN, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D; PT Miller S, Tang L, Shahabuddin S; DR WPI; 2003-229219/22.

PT Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or ubiquinone.

PT Disclosure; SEQ ID NO 10475; 872pp; English.

PS XX

CC The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5', and 3', intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depicting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing a bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences

SQ Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 242 CTGCTTCCGGGTC 256
Db 1 CTCTTTCCGGGTC 15

RESULT 1073

ID ACC53777/C
ID ACC53777 standard; DNA; 17 BP.

AC XX

AC ACC53777;

XX DT 27-JUN-2003 (first entry)

XX DE Human tumour suppressor sequence #2544.

XX KW ss; tumour suppressor; antitumour; cytostatic; tumour suppression; tumour regression; apoptosis; virus resistance; diagnosis; cellular degeneration.

OS Homo sapiens.

XX PN FR2826373-A1.

XX PD 27-DEC-2002.

XX PP 20-JUN-2001; 2001FR-00008139.

XX PR 20-JUN-2001; 2001FR-00008139.

XX PA (MOEB-) MOLECULAR ENGINES LAB SA.

XX PI Tuijinder M, Telerman A, Ambron R;

XX DR WPI; 2003-250498/25.

XX PT New nucleic acid sequences associated with tumor suppression, regression, apoptosis or virus resistance are useful to diagnose and treat viral disease, development of tumor cells and cell degeneration.

PS XX

Claim 1; Page 627; 798pp; French.

This sequence represents an isolated nucleic acid sequence associated with tumour suppression or regression, apoptosis or virus resistance. The invention relates to these sequences or sequences having at least 80% identity to them, and polypeptides encoded by the sequences or polypeptides having 80% identity to the polypeptide sequences. The invention is used to diagnose or treat viral disease or disease characterized by development of tumour cells or cellular degeneration.

Sequence 17 BP; 4 A; 6 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0;保守性 13; Indels 2; Gaps 0;

QY 200 CTCGGTGAACGAGA 214
Db 17 CTGGTGAAAGGAGA 3

RESULT 1074

ABT37623/C
ID ABT37623 standard; DNA; 17 BP.

XX

AC ABT37623;

XX

DT 12-JUN-2003 (first entry)

XX

Tumour suppression related human fukutin oligo SEQ ID No 3260.

XX

DE Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.

XX

OS Homo sapiens.

XX

WO2003025175-A2.

XX

PN

XX

PD 27-MAR-2003.

XX

PP 17-SEP-2002; 2002WO-1B004208.

XX

PR 17-SEP-2001; 2001FR-00011978.

XX

(MOLE-) MOLECULAR ENGINES LAB.

XX

PA (MOLE-) MOLECULAR ENGINES LAB.

XX

PI Telerman A, Amson R, Tuijnder M;

XX

DR WPI; 2003-313353/30.

XX

New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.

PT

XX

Disclosure; Page 415; 720pp; French.

PS

XX

The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumors or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein

CC diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein CC chips. The nucleic acid sequences of the invention can be used in gene CC therapy. This polynucleotide sequence represents a tumour suppression CC related human fukutin oligonucleotide of the invention.

XX Sequence 17 BP; 3 A; 4 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0;保守性 13; Indels 2; Gaps 0;

QY 294 GTCAGGACCTGAGC 308
Db 15 GCGAGGACCTGATC 1

RESULT 1075

ABT36046/C

ID ABT36046 standard; DNA; 17 BP.

XX

AC ABT36046;

XX

DT 12-JUN-2003 (first entry)

XX

Tumour suppression related human fukutin oligo SEQ ID No 1683.

XX

DE Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.

XX

OS Homo sapiens.

XX

PN WO2003025175-A2.

XX

PD 27-MAR-2003.

XX

PP 17-SEP-2002; 2002WO-1B004208.

XX

PR 17-SEP-2001; 2001FR-00011978.

XX

(MOLE-) MOLECULAR ENGINES LAB.

XX

PA (MOLE-) MOLECULAR ENGINES LAB.

XX

PI Telerman A, Amson R, Tuijnder M;

XX

DR WPI; 2003-313353/30.

XX

New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.

PT

XX

Disclosure; Page 229; 720pp; French.

PS

XX

The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumors or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein

CC chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention.

CC Sequence 17 BP; 7 A; 3 C; 6 G; 1 T; 0 U; 0 Other;

SQ Query Match 2.8%; Score 11.8; DB 1; Length 17;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

CC Best Local Similarity 86.7%; Pred. No. 5e+02;

CC QY 367 TCACTTCTCGGACC 381
Db 15 TOCCCTTCGAGTC 1

CC RESULT 1076

AC ACA06660/C
ID ACA06660 standard; RNA; 17 BP.

AC ACA06660;
XX DT 03-JUN-2003 (first entry)

DE NFKB sub-unit modulating inozyme substrate #479.

XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyne; G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human; lung cancer; head and neck cancer; ovarian cancer; melanoma; cervical cancer; prostate cancer; colorectal cancer; brain cancer; lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor; cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrate; gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes; rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia; gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis; transplant/grafft rejection; reperfusion injury; glomerulonephritis; allergic airway inflammation; inflammatory bowel disease; infection; ss. OS Homo sapiens.

XX US2002177568-A1.

XX PR 28-NOV-2002.

XX PF 23-MAY-2001; 2001US-00864785.

XX PR 07-DEC-1992; 92US-00987132.

XX PR 18-MAY-1994; 94US-00245466.

PR 15-AUG-1994; 94US-00219132.

PR 23-DEC-1996; 96US-00777916.

XX (STIN') STINCHCOMB D T.
PA (MCsw/) MCSWIGGEN J.
PA (DRAP/) DRAPER K G.

XX PT Stinchcomb DT, McSwiggen J, Draper KG;
XX DR WPI; 2003-340953/32.

XX PT Novel enzymatic nucleic acid molecules which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases.

XX PR Claim 3; Page 34; 72pp; English.

XX The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFKB), where (I) is an inozyme, zinzyne, G-cleaver or amberzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in

CC the presence of a divalent cation, especially Mg^{2+} . The enzymatic and antisense nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrate, gemcitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, graft obesity, autoimmune disease, lupus, multiple sclerosis, transplant/grafft rejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule

XX SQ Sequence 17 BP; 0 A; 6 C; 9 G; 0 T; 2 U; 0 Other;

CC Query Match 2.8%; Score 11.8; DB 1; Length 17;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

CC ID ACA06580 standard; RNA; 17 BP.

AC ACA06580;
XX DT 03-JUN-2003 (first entry)

DE NFKB sub-unit modulating inozyme substrate #399.

XX PR 23-MAY-2001; 2001US-00864785.

XX PR 07-DEC-1992; 92US-00987132.

XX PR 18-MAY-1994; 94US-00245466.

PR 15-AUG-1994; 94US-00219132.

PR 23-DEC-1996; 96US-00777916.

XX (STIN') STINCHCOMB D T.
PA (MCsw/) MCSWIGGEN J.
PA (DRAP/) DRAPER K G.

XX PT Stinchcomb DT, McSwiggen J, Draper KG;
XX DR WPI; 2003-340953/32.

XX PR 28-NOV-2002.

XX PR 23-MAY-2001; 2001US-00864785.

XX PR 07-DEC-1992; 92US-00987132.

PR 18-MAY-1994; 94US-00245466.

PR 15-AUG-1994; 94US-00219132.

PR 23-DEC-1996; 96US-00777916.

XX (STIN') STINCHCOMB D T.
PA (MCsw/) MCSWIGGEN J.
PA (DRAP/) DRAPER K G.

XX PI Stinchcomb DT, McSwiggen J, Draper KG;
XX DR WPI; 2003-340953/32.

XX
 PT Novel enzymatic nucleic acid molecules which down regulates expression of
 a sequence encoding a subunit of nuclear factor kappa B useful for
 treating cancer, inflammatory disorders and autoimmune diseases.
 XX
 PS Claim 3; Page 33; 72pp; English.

The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFkB), where (I) is an inozyme zinzyme, G-cleaver or ambyzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in the presence of a divalent cation, especially Mg²⁺. The enzymatic and antisense nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A specific inhibitors or chemotherapy including Paclitaxel, docetaxel, cisplatin, methotrexate, cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate, gemcitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule

XX
 CC Sequence 17 BP; 4 A; 4 C; 8 G; 0 T; 1 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 80.0%; Pred. No. 5e+02;
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 286 CCAAGCTGTCAGG 300
 DB ||||| :||||| 3 CCGGUGGGGAAGG 17

RESULT 1078

ACAA06587/C
 ID ACA06587 standard; RNA; 17 BP.
 XX
 AC ACA06587;
 XX
 DT 03-JUN-2003 (first entry)
 XX
 DB NFKB sub-unit modulating inzyme substrate #406.
 XX
 KW Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme; G-cleaver; ambrzyme; cancer; REL-A activity; breast cancer; human; lung cancer; prostate cancer; colorectal cancer; brain cancer; oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer; cervical cancer; head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma; multidrug resistant cancer; REL-A specific inhibitor; chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate; gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes; rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia; gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis; transplant/graft rejection; reperfusion injury; glomerulonephritis; sepsis; allergic airway inflammation; inflammatory bowel disease; infection; ss. Homo sapiens.

XX
 OS Homo sapiens.
 XX
 PN US2002177568-A1.
 XX
 PD 28-NOV-2002.
 XX

XX
 PT Novel enzymatic nucleic acid molecules which down regulates expression of
 a sequence encoding a subunit of nuclear factor kappa B useful for
 treating cancer, inflammatory disorders and autoimmune diseases.
 XX
 PA (STIN1) STINCHCOMB D T.
 PA (MCswJ) MCswIGGEN J.
 PA (DRAPr) DRAPER K G.
 XX
 PI Stinchcomb DT, Mcswiggen J, Draper KG;
 XX
 DR WPI; 2003-340953/32.

The invention describes an enzymatic nucleic acid molecules which down regulates expression of a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases.

XX
 PA Novel enzymatic nucleic acid molecules which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases.

XX
 PA (STIN1) STINCHCOMB D T.
 PA (MCswJ) MCswIGGEN J.
 PA (DRAPr) DRAPER K G.
 XX
 PI Stinchcomb DT, Mcswiggen J, Draper KG;
 XX
 DR WPI; 2003-340953/32.

The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFkB), where (I) is an inozyme, inzyme, G-cleaver or ambyzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in the presence of a divalent cation, especially Mg²⁺. The enzymatic and antisense nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate, gemcitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule

XX
 SQ Sequence 17 BP; 2 A; 6 C; 5 G; 0 T; 4 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 265 TGCACCTGAGCGGG 279
 DB 15 TGCAGCTGAGCGGG 1

RESULT 1079

AD02422
 ID AD02422 standard; DNA; 17 BP.
 XX
 AC AD02422;
 XX
 DT 20-NOV-2003 (first entry)
 XX
 DE Human MD24 Scanning oligonucleotide SEQ ID 3408.
 XX
 KW Cytostatic; immunostimulant; gene therapy; vaccine; human; zinc finger protein; MD23; MD27; MD21; chromosome 7q22.1; cancer; chromosome 6p11.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer; developmental disorder; ss.
 XX
 OS Homo sapiens.

XX
PN EP1281758-A2.
XX
PD 05-FEB-2003.
XX
PF 30-JUL-2002; 2002EP-00016874.
PR 02-AUG-2001; 2001US-00922181.
PA (AEOM-) AEROMICA INC.
PI Shannon M, Gu Y, Nguyen C;
XX
PT New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7 or MDZ12, e.g. cancer.
DR WPI; 2003-423107/40.
XX
PT New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7 or MDZ12, e.g. cancer.
XX
PS Example 8; SEQ ID NO 238; 103pp; English.
CC
CC The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2, MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosing or monitoring a disease caused by altered expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic acids can also be used as probes to detect and characterize gross alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The proteins are useful as therapeutic agents for gene therapy or as vaccines. The present sequence was used to illustrate the invention.
SQ Sequence 17 BP; 2 A; 6 C; 3 G; 6 T; 0 U; 0 Other;
CC
CC Query Match 2.8%; Score 11.8; DB 1; Length 17;
CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
CC
Qy 363 TCTCTCACTTCCTG 377
Db 2 TTCTGACTATCCTG 16
DB
RESULT 1080
ADA99249/C
ID ADA99249 standard; DNA; 17 BP.
XX
ADA99249;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human MDZ3 scanning oligonucleotide SEQ ID 238.
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1; cancer;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
OS Homo sapiens.
XX
PN EP1281758-A2.
XX
PT 05-FEB-2003.
XX
PF 30-JUL-2002; 2002EP-00016874.
PR 02-AUG-2001; 2001US-00922181.
XX
PA (AEOM-) AEROMICA INC.
XX
PI Shannon M, Gu Y, Nguyen C;
XX
PT WPI; 2003-423107/40.
XX
PS New zinc finger-containing proteins and nucleic acids, useful in

XX
PA (AEOM-) AEROMICA INC.
XX
PI Shannon M, Gu Y, Nguyen C;
XX
PT WPI; 2003-423107/40.
XX
PT New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7 or MDZ12, e.g. cancer.
XX
PS Example 8; SEQ ID NO 238; 103pp; English.
CC
CC The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2, MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosing or monitoring a disease caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic acids can also be used as probes to detect and characterize gross alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The proteins are useful as therapeutic agents for gene therapy or as vaccines. The present sequence was used to illustrate the invention.
SQ Sequence 17 BP; 5 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
CC
CC Query Match 2.8%; Score 11.8; DB 1; Length 17;
CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
CC
Qy 61 AGTCTCTCACTCG 75
Db 17 AGTCTCTGGACTAGG 3
DB
RESULT 1081
ADA99251/C
ID ADA99251 standard; DNA; 17 BP.
XX
AC ADA99251;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human MDZ3 scanning oligonucleotide SEQ ID 240.
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1; cancer;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX
OS Homo sapiens.
XX
PN EP1281758-A2.
XX
PT 05-FEB-2003.
XX
PF 30-JUL-2002; 2002EP-00016874.
PR 02-AUG-2001; 2001US-00922181.
XX
PA (AEOM-) AEROMICA INC.
XX
PI Shannon M, Gu Y, Nguyen C;
XX
PT WPI; 2003-423107/40.
XX
PS New zinc finger-containing proteins and nucleic acids, useful in

RESULT 1086

ID ADA99409

XX standard; DNA; 17 BP.

AC ADA9949;

XX

DT 20-NOV-2003 (first entry)

XX Human MDZ3 scanning oligonucleotide SEQ ID 398.

XX

Cytostatic; immunostimulant; gene therapy; vaccine; human;

XX

KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1; cancer;

KW

chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer; developmental disorder; ss.

XX

OS Homo sapiens.

XX

EP1281758-A2.

XX

05-FEB-2003.

XX

PR 30-JUL-2002; 2002EP-00016874.

XX

PR 02-AUG-2001; 2001US-00922181.

XX

PA (ABOM-) ABOMIC INC.

XX

PD 05-FEB-2003.

XX

PF 30-JUL-2002; 2002EP-00016874.

XX

PR 02-AUG-2001; 2001US-00922181.

XX

PA (ABOM-) ABOMIC INC.

XX

PT Shannon M, Gu Y, Nguyen C;

XX

WPI; 2003-423107/40.

XX

DR New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3,

XX

PT New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ7 or MDZ12, e.g. cancer.

XX

PS Example 8; SEQ ID NO 398; 103pp; English.

XX

PT New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ7 or MDZ12, e.g. cancer.

XX

CC The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MDZ3, MDZ4, MDZ12. MDZ3 is encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2, MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosis or monitoring a disease caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic acids can also be used as probes to detect and characterize gross alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The proteins are useful as therapeutic agents for gene therapy or as vaccines. The present sequence was used to illustrate the invention.

CC Sequence 17 BP; 4 A; 7 C; 4 G; 2 T; 0 U; 0 Other;

CC Query Match 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 13; Conservative 0; Minmatches 2; Indels 0; Gaps 0;

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC Query Match 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 13; Conservative 0; Minmatches 2; Indels 0; Gaps 0;

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

XX Human MDZ7 scanning oligonucleotide SEQ ID 4547.

XX

DE

KW

Cytostatic; immunostimulant; gene therapy; vaccine; human;

XX

zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1; cancer;

KW

chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer; developmental disorder; ss.

XX

OS Homo sapiens.

XX

EP1281758-A2.

XX

PR 05-FEB-2003.

XX

PR 30-JUL-2002; 2002EP-00016874.

XX

PR 02-AUG-2001; 2001US-00922181.

XX

PA (ABOM-) ABOMIC INC.

XX

PT Shannon M, Gu Y, Nguyen C;

XX

WPI; 2003-423107/40.

XX

PT New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3,

XX

PT New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ7 or MDZ12, e.g. cancer.

XX

CC The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MDZ3, MDZ4, MDZ12. MDZ3 is encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2, MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosis or monitoring a disease caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic acids can also be used as probes to detect and characterize gross alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The proteins are useful as therapeutic agents for gene therapy or as vaccines. The present sequence was used to illustrate the invention.

CC

CC Sequence 17 BP; 4 A; 7 C; 4 G; 2 T; 0 U; 0 Other;

CC

CC Query Match 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 13; Conservative 0; Minmatches 2; Indels 0; Gaps 0;

CC

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC

CC Query Match 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 13; Conservative 0; Minmatches 2; Indels 0; Gaps 0;

CC

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC

CC Query Match 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 13; Conservative 0; Minmatches 2; Indels 0; Gaps 0;

CC

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC

CC Query Match 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 13; Conservative 0; Minmatches 2; Indels 0; Gaps 0;

CC

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC

CC Query Match 2.8%; Score 11.8; DB 1; Length 17; Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 13; Conservative 0; Minmatches 2; Indels 0; Gaps 0;

CC

CC Sequence 17 BP; 3 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

CC

RESULT 1087

ID ADB03561/C

XX ADB03561 standard; DNA; 17 BP.

AC ADB03561;

XX

DT 20-NOV-2003 (first entry)

OS Homo sapiens.

XX
PN WO200297114-A2.
XX
PD 05-DBC-2002.
XX
PF 29-MAY-2002; 2002WO-US016840.
XX
PR 29-MAY-2001; 2001US-0294140P.
PT 06-JUN-2001; 2001US-0296249P.
PR 10-SEP-2001; 2001US-0318471P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PI McSwiggen, J;
XX
DR WPI; 2003-140484/13.
XX
PT Novel short interfering RNA and enzymatic nucleic acid useful for
treating cancer, modulates the expression of a nucleic acid encoding
HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
PR Claim 4; Page 144; 185pp; English.
XX
PS Claim 58; Page 121; 185pp; English.
XX
The invention relates to a novel short interfering RNA (siRNA) nucleic
acid molecule or an enzymatic nucleic acid molecule, that modulates
expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras,
N-Ras, and human deficiency virus (HIV) or a component of HIV. The nucleic
acid molecule of the invention has cytostatic, anti-HIV, and anti-
rheumatic activity. The nucleic acid molecules are useful for reducing
HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
also useful for treating breast, ovarian, colorectal, lung, prostate,
bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
shown in ABZ59889 - ABZ62216, ABZ6544 - ABZ65531, ABZ6520 - ABZ66524,
ABZ6530 - ABZ6585 represent substrate/target sequences for the human
ribozymes of the invention.
XX
SQ Sequence 17 BP; 2 A; 7 C; 5 G; 0 T; 3 U; 0 Other;
XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
Db 237 GAGGGCTCTTCCG 251
17 GAGGCCTCTGACCG 3
XX
RESULT 1089
XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
Db 261 ACGGTACCTGAG 275
1 ACGUGAGCUGUG 15
XX
RESULT 1090
XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 73.3%; Pred. No. 5e+02; Mismatches 11; Indels 0; Gaps 0;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
XX
Db 21-MAR-2003 (first entry)
XX
DE Human HER2 DNAzyme substrate #269.
XX
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
OS Homo sapiens.
XX
PN WO200297114-A2.
XX
PD 05-DEC-2002.
XX
PF 29-MAY-2002; 2002WO-US016840.
XX
PR 29-MAY-2001; 2001US-0294140P.
PT 06-JUN-2001; 2001US-0296249P.
PR 10-SEP-2001; 2001US-0318471P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PI McSwiggen, J;
XX
DR WPI; 2003-140484/13.
XX
PT Novel short interfering RNA and enzymatic nucleic acid useful for
treating cancer, modulates the expression of a nucleic acid encoding
HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
PR Claim 4; Page 144; 185pp; English.
XX
PS Claim 58; Page 121; 185pp; English.
XX
The invention relates to a novel short interfering RNA (siRNA) nucleic
acid molecule or an enzymatic nucleic acid molecule, that modulates
expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras,
N-Ras, and human deficiency virus (HIV) or a component of HIV. The nucleic
acid molecule of the invention has cytostatic, anti-HIV, and anti-
rheumatic activity. The nucleic acid molecules are useful for reducing
HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
also useful for treating breast, ovarian, colorectal, lung, prostate,
bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
shown in ABZ59889 - ABZ62216, ABZ6544 - ABZ65531, ABZ6520 - ABZ66524,
ABZ6530 - ABZ6585 represent substrate/target sequences for the human
ribozymes of the invention.
XX
SQ Sequence 17 BP; 3 A; 4 C; 7 G; 0 T; 3 U; 0 Other;
XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 73.3%; Pred. No. 5e+02; Mismatches 11; Indels 0; Gaps 0;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
XX
Db 261 ACGGTACCTGAG 275
1 ACGUGAGCUGUG 15
XX
RESULT 1090
XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 73.3%; Pred. No. 5e+02; Mismatches 11; Indels 0; Gaps 0;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
XX
Db 21-MAR-2003 (first entry)
XX
DE Human HER2 DNAzyme substrate #269.
XX
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
OS Homo sapiens.
XX
PN WO200297114-A2.
XX
PD 05-DEC-2002.
XX
PF 29-MAY-2002; 2002WO-US016840.
XX
PR 29-MAY-2001; 2001US-0294140P.
PT 06-JUN-2001; 2001US-0296249P.
PR 10-SEP-2001; 2001US-0318471P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PI McSwiggen, J;
XX
DR WPI; 2003-140484/13.
XX
PT Novel short interfering RNA and enzymatic nucleic acid useful for
treating cancer, modulates the expression of a nucleic acid encoding
HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
PR Claim 4; Page 138; 185pp; English.

CC	The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras, human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ5989 - ABZ6216, ABZ6454 - ABZ6531, ABZ6520 - ABZ66524, ABZ66530 - ABZ66585 represent substrate/target sequences for the human ribozymes of the invention	XX	ABZ6530 - ABZ66585 represent substrate/target sequences for the human ribozymes of the invention	CC
SQ	Sequence 17 BP; 2 A; 8 C; 7 G; 0 T; 0 U; 0 Other;	XX	Sequence 17 BP; 2 A; 8 C; 7 G; 0 T; 0 U; 0 Other;	CC
Query Match	2.8%; Score 11.8; DB 1; Length 17;	XX	Query Match 2.8%; Score 11.8; DB 1; Length 17;	SQ
Best Local Similarity	80.0%; Pred. No. 5e+02;	XX	Best Local Similarity 86.7%; Pred. No. 5e+02;	Query Match
Matches	12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;	XX	Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Best Local Similarity
OY	203 GTGAGGAGAGA 217	XX	250 CGGGCTTGGGCCACGG 264	Matches
Db	2 GGUGACASGAGGA 16	XX	1 CGGCCCGGCCACGG 15	13; Conservative
RESULT 1091	DBE	RESULT 1092	DBE	13; Conservative
ID ABZ61416	ABZ61329	ID ABZ61329	ABZ61329	0; Mismatches
XX	ABZ61416 standard; RNA; 17 BP.	XX	ABZ61329 standard; RNA; 17 BP.	2; Indels
AC		XX		0; Gaps
XX		AC		0; Gaps
DT 21-MAR-2003 (first entry)	XX	DT 21-MAR-2003 (first entry)	XX	0; Gaps
XX	Human H-Ras DNAzyme target #207.	XX	Human H-Ras DNAzyme target #120.	0; Gaps
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; anti-rheumatic; cancer; AIDS; ss.	XX	KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; anti-rheumatic; cancer; AIDS; ss.	XX	0; Gaps
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV; anti-rheumatic; cancer; AIDS; ss.	XX	KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV; anti-rheumatic; cancer; AIDS; ss.	XX	0; Gaps
KW Homo sapiens.	OS	KW Homo sapiens.	OS	0; Gaps
OS Homo sapiens.	XX	OS Homo sapiens.	XX	0; Gaps
XX		XX		0; Gaps
PP WO200297114-A2.	XX	PP WO200297114-A2.	XX	0; Gaps
PD 05-DEC-2002.	XX	PD 05-DEC-2002.	XX	0; Gaps
XX		XX		0; Gaps
PP 29-MAY-2002; 2002WO-US016840.	XX	PP 29-MAY-2002; 2002WO-US016840.	XX	0; Gaps
PR 29-MAY-2001; 2001US-0294140P.	XX	PR 29-MAY-2001; 2001US-0294140P.	XX	0; Gaps
PR 06-JUN-2001; 2001US-029249P.	XX	PR 06-JUN-2001; 2001US-029249P.	XX	0; Gaps
PR 10-SEP-2001; 2001US-0319471P.	XX	PR 10-SEP-2001; 2001US-0319471P.	XX	0; Gaps
PA (RIBO-) RIBOZYME PHARM INC.	XX	PA (RIBO-) RIBOZYME PHARM INC.	XX	0; Gaps
PA McSwiggen J;	XX	PA McSwiggen J;	XX	0; Gaps
PI WPI; 2003-140494/13.	XX	PI WPI; 2003-140494/13.	XX	0; Gaps
PT Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.	XX	PT Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.	XX	0; Gaps
PR Claim 58; Page 113; 185pp; English.	XX	PR Claim 58; Page 113; 185pp; English.	XX	0; Gaps
PS The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras, human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ5989 - ABZ6216, ABZ6454 - ABZ6531, ABZ6520 - ABZ66524, ABZ66530 - ABZ66585 represent substrate/target sequences for the human ribozymes of the invention	CC	PS The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras, human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ5989 - ABZ6216, ABZ6454 - ABZ6531, ABZ6520 - ABZ66524, ABZ66530 - ABZ66585 represent substrate/target sequences for the human ribozymes of the invention	CC	0; Gaps
SQ Sequence 17 BP; 0 A; 10 C; 6 G; 0 T; 1 U; 0 Other;	XX	SQ Sequence 17 BP; 0 A; 10 C; 6 G; 0 T; 1 U; 0 Other;	XX	0; Gaps
Query Match 2.8%; Score 11.8; DB 1; Length 17;	XX	Query Match 2.8%; Score 11.8; DB 1; Length 17;	XX	0; Gaps
Best Local Similarity 80.0%; Pred. No. 5e+02;	XX	Best Local Similarity 86.7%; Pred. No. 5e+02;	XX	0; Gaps
Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;	XX	Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	XX	0; Gaps
OY 250 CGGGCTTGGGCCACGG 264	XX	OY 250 CGGGCTTGGGCCACGG 264	XX	0; Gaps
Db 1 CGGCCCGGCCACGG 15	XX	Db 1 CGGCCCGGCCACGG 15	XX	0; Gaps

Db	1 CGGCCUCGCCCCGG 15	DE HCV DNAzyme substrate sequence #2007.
XX		KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
RESULT 1093		KW RNA stability; RNA expression; RNA synthesis; antisense;
ABZ61742/c		KW enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;
ID ABZ61742 standard; RNA; 17 BP.		KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
XX		KW HBV reverse transcriptase; Enhancer I region; viral replication;
AC ABZ61742;		KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
XX		KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
DT 21-MAR-2003 (first entry)		KW virucide; antiinflammatory; substrate; ss.
XX		XX OS Hepatitis C virus.
DB Human H-Ras DNzyme target #533.		XX PN WO200281494-A1.
XX		XX PD 17-OCT-2002.
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; anti-rheumatic; cancer; AIDS; ss.		XX PR 26-MAR-2002; 2002WO-US009187.
XX Homo sapiens.		XX PR 08-JUN-2001; 2001US-00817879.
OS XX WO200297114-A2.		PR 08-JUN-2001; 2001US-00877478.
XX PD 05-DEC-2002.		PR 08-JUN-2001; 2001US-0296176P.
XX PR 29-MAY-2002; 2002WO-US016840.		PR 24-OCT-2001; 2001US-0335059P.
XX PR 29-MAY-2001; 2001US-0294140P.		XX PR 05-DEC-2001; 2001US-0337055P.
PR 06-JUN-2001; 2001US-0296249P.		PA (RIBO-) RIOZYME PHARM INC.
PR 10-SEP-2001; 2001US-0318471P.		PA (BLAT/) BLATT L.
XX (RIBO-) RIOZYME PHARM INC.		PA (MACE/) MACEJAK D.
XX McSwiggen J;		PA (MCSW/) MCSWIGGEN J.
PI DR WPI; 2003-140484/13.		PA (MORR/) MORRISSEY D.
XX Novel short interfering RNA and enzymatic nucleic acid useful for		PA (PAVC/) PAVCO P.
PT acid molecule or an enzymatic nucleic acid molecule, that modulates the expression of a nucleic acid encoding		PA (LEE/) LEE P.
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.		PA (DRAP/) DRAPER K.
PS Claim 58; Page 121; 185pp; English.		PA (ROBE/) ROBERTS B.
XX The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates the expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras, and human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59898 - ABZ62216, ABZ6554 - ABZ65531, ABZ66520 - ABZ66524, ABZ65530 - ABZ65585 represent substrate/target sequences for the human ribozymes of the invention.		XX PI Blatt L, Macejak D, McSwiggen J, Morrissey D, Pavco P, Lee P;
CC Sequence 17 BP; 2 A; 7 C; 4 G; 0 T; 4 U; 0 other;		PT Draper K, Roberts B;
CC Query Match 2.8%; Score 11.8; DB 1; Length 17;		XX WPI; 2003-229207/22.
CC Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;		XX Novel compound useful for treating cirrhosis, liver failure, hepatitis C virus infection.
CC PT hepatocellular carcinoma, or condition associated with hepatitis C virus		XX Claim 1; Page 269; 387pp; English.
CC XX The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes, inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase and/or HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV DNA. The nucleic acids may be used to modulate the expression of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HCV. The compounds and methods of the invention are useful for the treatment of degenerative and disease states related to HBV and HCV infection, replication and gene expression such as cirrhosis, liver failure, and hepatocellular carcinoma. The present sequence represents a substrate for one of the HCV DNAzyme or minus strand DNAzyme sequences disclosed in the present invention.		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
CC Query Match 2.8%; Score 11.8; DB 1; Length 17;		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
CC Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
CC Query Match 2.8%; Score 11.8; DB 1; Length 17;		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
CC Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
CC DNAzyme or minus strand DNAzyme sequences disclosed in the present invention.		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
Db 15 GGAGGGCTGCTGAC 1		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
RESULT 1094		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
ACD60765/c		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
ID ACD60765 standard; RNA; 17 BP.		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
XX ACD60765;		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;
XX DT 24-SEP-2003 (first entry)		XX SQ Sequence 17 BP; 2 A; 6 C; 4 G; 0 T; 5 U; 0 Other;

Db	16 GAAACGGGGTGTC 2
RESULT 1095	
ACD57732	ACD57732 standard; RNA; 17 BP.
ID	ACD57732;
AC	ACD57732;
XX	23-SEP-2003 (first entry)
XX	HCV DNAzyme substrate sequence #486.
XX	Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV; RNA stability; RNA expression; RNA synthesis; antisense; enzyme; enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyne; amberzyme; G-cleaver ribozyme; decoy molecule; aptamer; HBV reverse transcriptase; Enhancer I region; viral replication; degenerative; disease state; HBV infection; HCV infection; cirrhosis; liver failure; hepatocellular carcinoma; hepatotrophic; cytostatic; virucide; antiinflammatory; substrate; ss.
XX	OS Hepatitis C virus.
XX	PN WO200281494-A1.
XX	PA (BLATT/ BLATT L.
PA	(MACE/ MACEJAK D.
PA	(MCsw/ MCSWIGGEN J.
PA	(MORR/ MORRISSEY D.
PA	(PAVC/ PAVCO P.
PA	(LEEP/ LEE P.
PA	(DRAP/ DRAPER K.
PA	(ROBE/ ROBERTS E.
PI	Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
XX	Draper K, Roberts E;
PS	WPI; 2003-229207/22.
XX	Novel compound useful for treating cirrosis, liver failure, hepatitis, or condition associated with hepatitis C virus infection.
XX	Novel compound useful for treating cirrosis, liver failure, hepatitis, or condition associated with hepatitis C virus infection.
XX	Novel compound useful for treating cirrosis, liver failure, hepatitis, or condition associated with hepatitis C virus infection.
CC	The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes, inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase and/or HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV DNA. The nucleic acids may be used to modulate the expression of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HCV. The compounds and methods of the invention are useful for the treatment of degenerative and disease states related to HBV and HCV infection, replication and gene expression such as cirrhosis, liver failure, and hepatocellular carcinoma. The present sequence represents a substrate for one of the HCV
CC	invention
CC	sequence 17 BP; 3 A; 7 C; 7 G; 0 T; 0 U; 0 Other;
XX	Query Match 2.8%; Score 11.8; DB 1; Length 17;
SQ	Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 2; Indels 0; Gaps 0;
Matches 13; Conservative 0;	Db
QY 108 CGGAGCCAGAG 122	QY 108 CGGAGCCAGAG 122
2 CGGGCCCGGAG 16	2 CGGGCCCGGAG 16
RESULT 1096	RESULT 1096
ACD63967	ACD63967
ID	ACD63967 standard; RNA; 17 BP.
XX	ACD63967;
XX	30-SEP-2003 (first entry)
XX	HCV minus strand DNAzyme substrate sequence #1326.
XX	Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV; RNA stability; RNA expression; RNA synthesis; antisense; enzyme; enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyne; amberzyme; G-cleaver ribozyme; decoy molecule; aptamer; HBV reverse transcriptase; Enhancer I region; viral replication; degenerative; disease state; HBV infection; HCV infection; cirrhosis; liver failure; hepatocellular carcinoma; hepatotrophic; cytostatic; virucide; antiinflammatory; substrate; ss.
XX	OS Hepatitis C virus.
XX	PN WO200281494-A1.
XX	PD 17-OCT-2002.
XX	PP 26-MAR-2002; 2002WO-US009187.
XX	PR 26-MAR-2001; 2001US-0081779.
PR	08-JUN-2001; 2001US-00877478.
PR	08-JUN-2001; 2001US-029676P.
PR	24-OCT-2001; 2001US-0335059P.
PR	05-DEC-2001; 2001US-0337055P.
XX	PA (RIBO/ RIBOZYME PHARM INC.
PA	(BLATT/ BLATT L.
PA	(MACE/ MACEJAK D.
PA	(MCsw/ MCSWIGGEN J.
PA	(MORR/ MORRISSEY D.
PA	(PAVC/ PAVCO P.
PA	(LEEP/ LEE P.
PA	(DRAP/ DRAPER K.
PA	(ROBE/ ROBERTS E.
XX	PA (RIBO/ RIBOZYME PHARM INC.
PA	(BLATT/ BLATT L.
PA	(MACE/ MACEJAK D.
PA	(MCsw/ MCSWIGGEN J.
PA	(MORR/ MORRISSEY D.
PA	(PAVC/ PAVCO P.
PA	(LEEP/ LEE P.
PA	(DRAP/ DRAPER K.
PA	(ROBE/ ROBERTS E.
XX	PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
PI	Draper K, Roberts E;
XX	WPI; 2003-229207/22.
XX	Novel compound useful for treating cirrosis, liver failure, hepatitis, or condition associated with hepatitis C virus infection.
CC	The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes, inozymes, zinzyymes, amberzymes, and G-cleaver ribozymes. Also disclosed

CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNazyme or minus strand DNazyme sequences disclosed in the present
 XX invention

SQ Sequence 17 BP; 6 A; 6 C; 4 G; 0 T; 1 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 80.0%; Pred. No. 5e+02;
 Matches 12; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 3 9 GAGATGGCCACAC 53
 DB 3 GAGAUGCCCCAAC 17

RESULT 1097

ACD58702/C
 ID ACD58702 standard; RNA; 17 BP.
 XX
 AC ACD58702;
 XX
 DT 24-SEP-2003 (first entry)
 XX
 DB HCV DNAzyme substrate sequence #952.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HEV;
 KW RNA stability; RNA expression; RNA synthesis; antisense;
 KW enzymatic nucleic acid; hammerhead ribozyme; inozyme; zinzyne;
 KW ambezyme; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer I region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
 KW viricide; antiinflammatory; substrate; ss.
 XX Hepatitis C virus.

XX WO200281494-A1.
 FN 17-OCT-2002.

XX 26-MAR-2002; 2002WO-US009187.

PR 26-MAR-2002; 2002WO-US009187.

PR 26-MAR-2001; 2001US-00817879.
 PR 08-JUN-2001; 2001US-00877478.
 PR 24-OCT-2001; 2001US-035059P.
 PR 05-DEC-2001; 2001US-0337055P.

XX (RIBO-) RIBOZYME PHARM INC.
 PA (BLATT-) BLATT L.
 PA (MACEJAK-) MACEJAK D.
 PA (MCsw-/) MCSWIGGEN J.
 PA (MORR-) MORRISSEY D.
 PA (PAVCO-) PAVCO P.
 PA (LEEP-) LEE P.
 PA (DRAP-) DRAPER K.
 PA (ROBE/) ROBERTS E.

PI Blatt L., Macejak D., Mcswiggen J., Morrissey D., Pavco P., Lee P.;
 PI Draper K., Roberts E.;
 XX DR
 XX WPI; 2003-229207/22.

PT Novel compound useful for treating cirrhosis, liver failure,
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus
 PT infection.
 XX
 PS Claim 1; Page 251; 387pp; English.

CC The present invention relates to nucleic acid molecules which modulate
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
 CC inozymes, zinzyne, ambezymes, and G-cleaver ribozymes. Also disclosed
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV
 CC DNA. The nucleic acids may be used to modulate the expression of HBV
 CC genes and HBV viral replication. Also disclosed is a method for screening
 CC compounds and/or potential therapies directed against HBV, and compounds
 CC that modulate the expression and/or replication of HCV. The compounds and
 CC methods of the invention are useful for the treatment of degenerative and
 CC disease states related to HBV and HCV infection, replication and gene
 CC expression such as cirrhosis, liver failure, and hepatocellular
 CC carcinoma. The present sequence represents a substrate for one of the HCV
 CC DNazyme or minus strand DNazyme sequences disclosed in the present
 CC invention

SQ Sequence 17 BP; 1 A; 5 C; 5 G; 0 T; 6 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 3 9 GAGATGGCCACAC 53
 DB 16 GAGATGCCACAC 2

RESULT 1098

ID ACD61848
 ID ACD61848 standard; RNA; 17 BP.
 XX
 AC ACD61848;
 XX
 DT 23-SEP-2003 (first entry)
 XX
 DE HCV minus strand DNAzyme substrate sequence #271.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
 KW RNA stability; RNA expression; RNA synthesis; antisense;
 KW enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyne;
 KW ambezyme; G-cleaver ribozyme; decoy molecule; aptamer;
 KW HBV reverse transcriptase; Enhancer I region; viral replication;
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
 KW viricide; antiinflammatory; substrate; ss.
 XX Hepatitis C virus.

XX WO200281494-A1.
 PD 17-OCT-2002.

PP 26-MAR-2002; 2002WO-US009187.

PR 26-MAR-2001; 2001US-00817879.
 PR 08-JUN-2001; 2001US-00877478.
 PR 24-OCT-2001; 2001US-035059P.
 PR 05-DEC-2001; 2001US-0337055P.

PA (RIBO-) RIBOZYME PHARM INC.
 PA (BLATT-) BLATT L.
 PA (MACEJAK-) MACEJAK D.
 PA (MCsw-/) MCSWIGGEN J.

PA (MORR/) MORRISSEY D.
 PA (PAVC/) PAVCO P.
 PA (LEBP/) LEE P.
 PA (DRAP/) DRAPER K.
 PA (ROBE/) ROBERTS E.

XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
 PI Draper K, Roberts E;
 DR WPI; 2003-229207/22.

PT Novel compound useful for treating cirrhosis, liver failure, hepatitis C virus infection.

PS Claim 1; Page 279; 387pp; English.

XX The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense enzymes, zinzymes, ambyzymes, and G-cleaver ribozymes. Also disclosed are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase and/or HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV DNA. The nucleic acids may be used to modulate the expression of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HCV. The compounds and methods of the invention are useful for the treatment of degenerative and disease states related to HBV and HCV infection, replication and gene expression such as cirrhosis, liver failure, and hepatocellular carcinoma. The present sequence represents a substrate for one of the HCV DNAYme or minus strand DNAYme sequences disclosed in the present invention.

XX Sequence 17 BP; 4 A; 4 C; 6 G; 0 T; 3 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 80.0%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;
 Matches 12; Conservative 1; Mismatches 2;

QY 1 GAAACGCGGCTGAC 25
 Db 3 GAAACAGCGGGUGUC 17

RESULT 1039

ACD64937/C
 ID ACD64937 standard; RNA; 17 BP.

XX AC ACD64937;

XX DT 30-SEP-2003 (first entry)

DE HCV minus strand DNAzyme substrate sequence #1792.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV; RNA stability; RNA expression; RNA synthesis; antisense; enzymatic nucleic acid; hammerhead ribozyme; DNAYme; inzyme; zinzyme; ambyzyme; G-cleaver ribozyme; decoy molecule; aptamer; degron; reverse transcriptase; Enhancer I region; viral replication; degenerate; disease state; HBV infection; HCV infection; cirrhosis; liver failure; hepatocellular carcinoma; hepatotropic; cytosstatic; virucide; antiinflammatory; substrate; ss.

OS Hepatitis C virus.

XX WO200281494-A1.

PD 17-OCT-2002.

XX PP 26-MAR-2002; 2002WO-US009187.

XX PR 26-MAR-2001; 2001US-0081-879.
 PR 08-JUN-2001; 2001US-0296776P.
 PR 24-OCT-2001; 2001US-0335059P.
 PR 05-DEC-2001; 2001US-0337055P.

XX PA (RIBO-) RIBOZYME PHARM INC.

PA (BLAT-) BLATT L.
 PA (MACE-) MACEJAK D.
 PA (MCNW-) MCNWIGGEN J.
 PA (MORR-) MORRISSEY D.
 PA (PAVC-) PAVCO P.
 PA (LEBP-) LEE P.
 PA (DRAP-) DRAPER K.
 PA (ROBE-) ROBERTS E.

XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
 PI Draper K, Roberts E;

DR WPI; 2003-229207/22.

PT Novel compound useful for treating cirrhosis, liver failure, hepatitis C virus infection.

PS Claim 1; Page 307; 387pp; English.

XX The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNAYmes, inzymes, zinzymes, ambyzymes, and G-cleaver ribozymes. Also disclosed are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase and/or HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV DNA. The nucleic acids may be used to modulate the expression of HBV genes and HBV viral replication. Also disclosed is a method for Screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HCV. The compounds and methods of the invention are useful for the treatment of degenerative and disease states related to HBV and HCV infection, replication and gene expression such as cirrhosis, liver failure, and hepatocellular carcinoma. The present sequence represents a substrate for one of the HCV DNAYme or minus strand DNAYme sequences disclosed in the present invention.

XX Sequence 17 BP; 0 A; 7 C; 8 G; 0 T; 2 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2;

QY 108 CGCGAAGCCAGCAG 122
 Db 17 CGCGGCCGCCGAG 3

RESULT 1100

ID ACC65050
 ID ACC65050 standard; DNA; 17 BP.

XX AC ACC65050;

XX DT 01-JUL-2003 (first entry)

DB Murine oligonucleotide associated with tumour suppression, SEQ ID 2297.

XX KW Cytostatic; virucide; neuroprotective; nortropic; neuroleptic; murine; KW tumour suppression; tumour reversion; apoptosis; virus resistance; viral disease; tumour; cell degeneration; cancer; Alzheimer's disease; KW schizophrenia; ss.

OS MUS musculus.
 XX
 PT WO2003025176-A2.
 PT
 XX
 PD 27-MAR-2003.
 PF 17-SEP-2002; 2002WO-1B004210.
 PR 17-SEP-2001; 2001FR-00011979.
 XX
 PA (MOLE-) MOLECULAR ENGINES LAB.
 XX
 PI Telerman A, Amson R, Tuijnder M;
 XX
 DR WPI; 2003-333167/31.
 XX
 PT New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.
 XX
 PS Disclosure; Page 299; 738PP; French.
 CC
 CC The present invention relates to murine oligonucleotides (ACC62754-ACC68806), which are associated with tumour suppression, tumour reversion, apoposis and virus resistance. The oligonucleotides are useful as (1) as probes and primers for detecting, identifying, quantifying and/or amplifying nucleic acid, e.g. as one component of a gene chip; in vitro as (anti)sense reagents; and (2) for production of recombinant polypeptides. The oligonucleotides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are specifically cancer but also Alzheimer's disease and schizophrenia.
 XX
 SQ Sequence 17 BP; 2 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 13; Conservative
 QY 192 ATCCACTGCTGGTG 206
 DB 2 ATCCTCACTGGTG 16
 XX
 RESULT 1101
 ACC84062;
 ID ACC84062 standard; DNA; 17 BP.
 AC
 XX
 DT 22-SEP-2003 (first entry)
 XX
 DE Human cytochrome P450 gene CYP2D6 reverse PCR primer A6.
 XX
 KW Differential amplification of polymorphisms; DAP; human; CYP2D6;
 KW cytochrome P450; polymorphism; haplotype; PCR; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2003046206-A2.
 XX
 PD 05-JUN-2003.
 XX
 PF 27-NOV-2002; 2002WO-US038435.
 XX
 PR 28-NOV-2001; 2001US-0334032P.
 XX
 PA (MJBI-) MJ BIOWORKS INC.
 XX
 PI Wang Y, Finney M, Chen F;
 XX
 DR WPI; 2003-505210/47.
 XX
 PT Identifying polymorphisms using an error correcting assay that utilizes an improved generation of nucleic acid polymerases and multiplexing the assay.
 XX
 PS Example 1; Page 21; 35PP; English.
 CC
 CC The present primer is a reverse primer for the PCR amplification of the human cytochrome P450 CYP2D6 gene. It was used in an example from the invention in which modified error-correcting polymerases were shown to be
 CC

PT Determining allelic DNA sequences and haplotypes in a DNA sample, comprising using primers with a single difference corresponding to a polymorphic site combined with quantitative PCR using a fluorescent readout.
 PT
 XX
 PS Example 1; Page 22; 36PP; English.
 CC
 CC The present sequence is that of primer A6, which is one of a set of primers (see ACC4051-62) used in an example of the method of the invention, i.e. differential amplification of polymorphisms (DAP), to distinguish 4 templates that differed at a single position. A 475 bp portion of the human P450 gene CYP2D6 was amplified using primer A1 (forward) and A5 (reverse) and cloned into a TA cloning vector. 3 PCR primers (A2-A4) identical to A1 except for a single difference at their 3' terminal bases were used with A5 to re-amplify the CYP2D6 fragment, generating the point mutations A, C and T at nucleotide 3280 (G is present in the most common allele). The 3 amplicons were cloned into TA cloning vector. In order to examine the effect of amplicon size, an additional reverse primer, A6, was used to generate a 57 bp amplicon. DAP was performed and was able to distinguish between the 4 templates. The method combines allele-specific PCR with technology used for quantitative PCR. It can be used to score the presence or absence of particular polymorphisms or particular haplotypes in a DNA sample
 XX
 SQ Sequence 17 BP; 2 A; 7 C; 3 G; 5 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 13; Conservative
 QY 353 CTAGCGACTTC 367
 DB 1 CTCCGGGACTTC 15
 XX
 RESULT 1102
 ACC83872;
 ID ACC83872 standard; DNA; 17 BP.
 XX
 AC ACC83872;
 XX
 DT 08-SEP-2003 (first entry)
 XX
 DE Human cytochrome P450 gene CYP2D6 reverse PCR primer R1.
 XX
 KW Human; cytochrome P450; CYP2D6; nucleic acid detection; error correction; KW single nucleotide polymorphism; SNP; PCR; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2003046208-A2.
 XX
 PD 05-07N-2003.
 XX
 PF 27-NOV-2002; 2002WO-US038435.
 XX
 PR 28-NOV-2001; 2001US-0334032P.
 XX
 PA (MJBI-) MJ BIOWORKS INC.
 XX
 PI Wang Y, Finney M, Chen F;
 XX
 DR WPI; 2003-505210/47.
 XX
 PT Identifying polymorphisms using an error correcting assay that utilizes an improved generation of nucleic acid polymerases and multiplexing the assay.
 XX
 PS Example 1; Page 21; 35PP; English.
 CC
 CC The present primer is a reverse primer for the PCR amplification of the human cytochrome P450 CYP2D6 gene. It was used in an example from the invention in which modified error-correcting polymerases were shown to be
 CC

KW detection; primer; ss.
 XX
 OS Synthetic.
 OS Oreochromis niloticus.
 XX WO200300160-A2.
 PD 24-JUL-2003.
 XX 17-JAN-2003; 2003WO-IB000112.
 PR 18-JAN-2002; 2002US-0349950P.
 PR 16 AUG-2002; 2002US-0404200P.
 XX
 PA (GENO-) GENOMAR ASA.
 XX
 PI Lie O, Slettan A, Hoyum M, Lingaas F;
 XX DR WPI; 2003-627388/59.
 XX
 PT Novel isolated nucleic acid molecule comprising single nucleotide polymorphism associated with fish; useful for forming PCR primers which are used for detecting single nucleotide polymorphisms in fish nucleic acids.
 XX
 PS Claim 18; SEQ ID NO 579; 233pp; English.
 XX
 CC The present invention describes an isolated nucleic acid (I) comprising a single nucleotide polymorphism (SNP) chosen from: (i) a nucleic acid of Salmo salar SNPs, Oreochromis niloticus SNPs or Atlantic halibut SNPs; and (ii) a nucleic acid having nucleotide sequence that hybridises to (i), or its complement under highly stringent hybridisation conditions. Also described: (1) an isolated oligonucleotide (II) comprising at least 17 contiguous nucleotides of a nucleotide sequence of S. salar SNPs, O. niloticus SNPs, O. niloticus microsatellites, Atlantic halibut SNPs, cod polymorphic sites and seabass polymorphic sites, or their complement; (2) a primer pair (III) suitable for use in PCR, comprising two (II) capable of amplifying a nucleotide sequence chosen from S. salar SNPs and, O. niloticus SNPs. O. niloticus microsatellites, Atlantic halibut SNPs, cod polymorphic sites and seabass polymorphic sites; and determining (M1) the origin of fish sample comprising providing a parentage genotype database comprising a collection of candidate genotypes where each of the candidate parent genotype represents a distinct origin, and comparing a sample genotype to the parentage genotype database, where a match between the sample genotype and one of the candidate parent genotype identifies to the origin of the sample. (M1) is useful for determining the origin of a fish sample such as family salmonidae, S. salar, tilapia, O. niloticus, rainbow trout, halibut, seabass and Atlantic cod. (II) is useful for detecting nucleic acid molecule comprising SNP in a sample, which involves contacting the sample containing nucleic acids with one or more (II) derived from nucleotide sequence of S. salar SNPs and O. niloticus SNPs, and identifying nucleic acid that hybridises to (II). (II) is useful for detecting nucleic acid molecule comprising a polymorphic sequence in a sample, comprising contacting the sample containing nucleic acids with one or more (II) which is derived from O. niloticus microsatellite O. niloticus SNPs, cod polymorphic sites or seabass polymorphic sites, and identifying a nucleic acid that hybridises to (II). (II) is useful for detecting nucleic acid molecule comprising a microsatellite sequence used in the exemplification of the present invention.

XX Sequence 17 BP; 6 A; 3 C; 7 G; 1 T; 0 U; 0 Other;

SQ Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 82 GCGCAGTGACATCA 96
 Db 2 gggcagggacatca 16

KW gene therapy; antibody therapy; modulator of GAPN;
 KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
 XX DE Human GAP_N DNA 17-mer oligo #121.
 XX PN WO2003033703-A2.
 XX PD 24-APR-2003.
 XX PP 11-OCT-2002; 2002WO-US032597.
 XX PR 15-OCT-2001; 2001US-0330323P.
 XX PA (AMSH) AMERSHAM BIOSCIENCES SV CORP.
 PT Zhang J;
 XX DR WPI; 2003-40324/38.
 XX
 PT Novel human GTP-activator protein for Rab-like GAPN, encoding the protein, useful for diagnosing, treating or preventing disorders associated with increased expression or activity of the protein.
 XX
 PS Example 2; SEQ ID NO 145; 149pp; English.
 XX
 CC The invention relates to an isolated human GTP-activator protein for Rab-like GAPN polypeptide (I), a sequence having 65% identity to (I), a sequence in which at least 95% of deviations from (I) are conservative substitutions, or a fragment of at least 8 contiguous amino acids of (I). The polypeptide is useful for identifying a specific binding partner for itself, by contacting the polypeptide in vivo to a potential binding partner and determining if the polypeptide binding partner binds to the polypeptide. (I) and a nucleic acid encoding the polypeptide (II) are useful for diagnosing or monitoring disease caused by altered expression of GAPN, by determining the level of expression of GAPN in a sample of nucleic acids or proteins that derives from a subject suspected to have the disease, alterations from a normal level of expression providing diagnostic and/or monitoring information. (I), (II) or agonist of (I) is useful for treating or preventing a disorder associated with decreased expression or activity of GAPN, and an antagonist of (I) is useful for treating or preventing disorder associated with increased expression or activity of GAPN (all claimed).
 CC (I) is useful as immunogen to raise antibodies that specifically recognize GAPN proteins. (II) is useful to drive in vitro expression of GAPN proteins, and as hybridization probes to detect, characterize and quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both genomic and transcript-derived nucleic acid samples. This sequence represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
 CC
 SQ Sequence 17 BP; 3 A; 8 C; 5 G; 1 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 383 CGACGACGGCGCAA 397
 Db 1 CGACGACGCCGCTA 15

AUD20889
 ID ADD20889 standard; DNA; 17 BP.
 XX
 AC ADD20889;
 XX ADD20889;
 DT 15-JAN-2004 (first entry)
 XX
 DE Human GAP_N DNA 17-mer oligo #121.
 KW gene therapy; antibody therapy; modulator of GAPN;
 KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
 XX DE Human GAP_N DNA 17-mer oligo #121.
 XX OS Homo sapiens.
 XX PN WO2003033703-A2.

XX
XX ADD21032;
XX DT 15-JAN-2004 (first entry)
XX DE Human GAP_N DNA 17-mer oligo #264.
XX KW gene therapy; antibody therapy; modulator of GAPN;
XX GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX OS Homo sapiens.
XX PN WO2003033703-A2.
XX PD 24-APR-2003.
XX PR 11-OCT-2002; 2002WO-US032597.
XX PR 15-OCT-2001; 2001US-0330323P.
XX PA (AMSH) AMERSHAM BIOSCIENCES SV CORP.
XX PI Zhang J;
XX DR WPI; 2003-403224/38.
XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide encoding the protein, useful for diagnosing, treating or preventing disorders associated with increased expression or activity of the protein.
XX PS Example 2; SEQ ID NO 288; 149pp; English.
XX CC The invention relates to an isolated human GTP-activator protein for Rab-like GTPase (GAPN) polypeptide (I), a sequence having at least 95% identity to (I), a sequence in which at least 95% of deviations from (I) are conservative substitutions, or a fragment of at least 8 contiguous amino acids of (I). The polypeptide is useful for identifying a specific binding partner for itself, by contacting the polypeptide in vivo to a potential binding partner and determining if the polypeptide binds to the partner. The invention also relates to a nucleic acid encoding the polypeptide (I) and a nucleic acid encoding the partner binds to the polypeptide (I) and a nucleic acid encoding the polypeptide (I) are useful for diagnosing or monitoring a disease caused by altered expression of GAPN, by determining the level of expression of GAPN in a sample of nucleic acids or proteins that derives from a subject suspected to have the disease, alterations from a normal level of expression providing diagnostic and/or monitoring information. (I), (II) or (III) is useful as an antigen to raise antibodies that specifically recognize GAPN proteins. (I) is useful to drive in vivo expression of GAPN proteins, and as hybridization probes to detect, characterize and quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both genomic and transcript-derived nucleic acid samples. This sequence represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX SQ Sequence 17 BP; 2 A; 7 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 255 CGGCCACCTGGCC 270
Db 16 CGGCCACCTGGCC 2
RESULT 1110
ADD2087
ID ADD2087 standard; DNA; 17 BP.
XX ADD2087;
AC ADD2087;

XX
XX DT 15-JAN-2004 (first entry)
XX DE Human GAP_N DNA 17-mer oligo #119.
XX KW gene therapy; antibody therapy; modulator of GAPN;
XX GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX OS Homo sapiens.
XX PN WO2003033703-A2.
XX PD 24-APR-2003.
XX PR 11-OCT-2002; 2002WO-US032597.
XX PR 15-OCT-2001; 2001US-0330323P.
XX PA (AMSH) AMERSHAM BIOSCIENCES SV CORP.
XX PI Zhang J;
XX DR WPI; 2003-403224/38.
XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide encoding the protein, useful for diagnosing, treating or preventing disorders associated with increased expression or activity of the protein.
XX PS Example 2; SEQ ID NO 143; 149pp; English.
XX CC The invention relates to an isolated human GTP-activator protein for Rab-like GTPase (GAPN) polypeptide (I), a sequence having at least 95% identity to (I), a sequence in which at least 95% of deviations from (I) are conservative substitutions, or a fragment of at least 8 contiguous amino acids of (I). The polypeptide is useful for identifying a specific binding partner for itself, by contacting the polypeptide in vivo to a potential binding partner and determining if the polypeptide binds to the partner. The invention also relates to a nucleic acid encoding the polypeptide (I) and a nucleic acid encoding the partner binds to the polypeptide (I) and a nucleic acid encoding the polypeptide (I) are useful for diagnosing or monitoring a disease caused by altered expression of GAPN, by determining the level of expression of GAPN in a sample of nucleic acids or proteins that derives from a subject suspected to have the disease, alterations from a normal level of expression providing diagnostic and/or monitoring information. (I), (II) or (III) is useful as an antigen to raise antibodies that specifically recognize GAPN proteins. (I) is useful to drive in vivo expression of GAPN proteins, and as hybridization probes to detect, characterize and quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both genomic and transcript-derived nucleic acid samples. This sequence represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX SQ Sequence 17 BP; 3 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 383 CGACCAAGGGCCAA 397
Db 3 CGACCAAGGGCCAA 17
RESULT 1111
ADD20930/C
ID ADD20930 standard; DNA; 17 BP.
XX ADD20930;
AC ADD20930;
DT 15-JAN-2004 (first entry)

DE Human GAP_N DNA 17-mer oligo #162.
 XX
 KW gene therapy; antibody therapy; modulator of GAPN;
 KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
 KK OS Homo sapiens.
 XX PN WO2003033703-A2.
 XX PD 24-APR-2003.
 XX PR 11-OCT-2002; 2002WO-US032597.
 XX PR 15-OCT-2001; 2001US-0330323P.
 XX PA (AMSH) AMERSHAM BIOSCIENCES SV CORP.
 XX PI Zhang J;
 XX DR WPI; 2003-403224/38.
 XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide encoding the protein, useful for diagnosing, treating or preventing disorders associated with increased expression or activity of the protein.
 XX PS Example 2; SEQ ID NO 186; 149pp; English.
 XX The invention relates to an isolated human GTP-activator protein for Rab-like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to (I), a sequence in which at least 95% of deviations from (I) are conservative substitutions, or a fragment of at least 8 contiguous amino acids of (I). The polypeptide is useful for identifying a specific binding partner for itself, by contacting the polypeptide in vivo to a potential binding partner and determining if the polypeptide binding partner binds to the polypeptide. (I) and a nucleic acid encoding the polypeptide (II) are useful for diagnosing or monitoring a disease caused by altered expression of GAPN, by determining the level of expression of GAPN in a sample of nucleic acids or proteins that derives from a subject suspected to have the disease, alterations from a normal level of expression providing diagnostic and/or monitoring information. (I), (II) expression providing diagnostic and/or monitoring information. (I), (II) or agonist of (I) is useful for treating or preventing a disorder associated with decreased expression or activity of GAPN, and an antagonist of (I) is useful for treating or preventing a disorder associated with increased expression or activity of GAPN (all claimed). (I) is useful as immunogen to raise antibodies that specifically recognize GAPN proteins. (II) is useful to drive in vivo expression of GAPN protein, and as hybridization probes to detect, characterize and quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both genomic and transcript-derived nucleic acid samples. This sequence represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
 XX Sequence 17 BP; 3 A; 8 C; 4 G; 2 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 15 CTGCCTGGTGACCGAG 29
 Db 16 CTGCCGGTGAACGTG 2
 RESULT 1112
 ADD20929|C ADD20929 standard; DNA; 17 BP.
 AC
 XX ADD20929;
 DT 15-JAN-2004 (first entry)
 XX Human GAP_N DNA 17-mer oligo #161.
 KK
 KW gene therapy; antibody therapy; modulator of GAPN;
 KW

OS Homo sapiens.
 XX
 PN WO2003033703-A2.
 XX
 PD 24-APR-2003.
 XX
 PF 11-OCT-2002; 2002WO-US032597.
 XX
 PR 15-OCT-2001; 2001US-0330323P.
 XX
 PA (AMSH) AMERSHAM BIOSCIENCES SV CORP.
 XX
 DR
 PI Zhang J;
 XX
 PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide
 PT encoding the protein, useful for diagnosing, treating or preventing
 PT disorders associated with increased expression or activity of the
 PT protein.
 XX
 PS Example 2; SEQ ID NO 144; 149pp; English.
 XX
 CC The invention relates to an isolated human GTP-activator protein for Rab-
 CC like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
 CC (I), a sequence in which at least 95% of deviations from (I) are
 CC conservative substitutions, or a fragment of at least 8 contiguous amino
 CC acids of (I). The polypeptide is useful for identifying a specific
 CC binding partner for itself, by contacting the polypeptide in vivo to a
 CC potential binding partner and determining if the polypeptide binding the
 CC partner binds to the polypeptide (I) and a nucleic acid encoding the
 CC partner binds to the polypeptide (I). The polypeptide is useful for identifying a specific
 CC binding partner for itself, by contacting the polypeptide in vivo to a
 CC potential binding partner and determining if the polypeptide binding the
 CC partner binds to the polypeptide (I) and a nucleic acid encoding the
 CC partner binds to the polypeptide (II), a sequence having 65% identity to
 CC (I), a sequence in which at least 95% of deviations from (I) are
 CC conservative substitutions, or a fragment of at least 8 contiguous amino
 CC acids of (I). The polypeptide is useful for diagnosing or monitoring a disease caused
 CC by altered expression of GAPN, by determining the level of expression of
 CC GAPN in a sample of nucleic acids or proteins that derives from a subject
 CC suspected to have the disease, alterations from a normal level of
 CC expression providing diagnostic and/or monitoring information. (I), (II)
 CC or agonist of (I) is useful for treating or preventing a disorder
 CC or antagonist of (I) is useful for treating or preventing a disorder
 CC associated with decreased expression or activity of GAPN, and an
 CC antagonist of (I) is useful for treating or preventing a disorder
 CC associated with increased expression or activity of GAPN (all claimed).
 CC (I) is useful as immunogen to raise antibodies that specifically
 CC recognize GAPN proteins. (II) is useful to drive in vivo expression of
 CC GAPN proteins, and as hybridization probes to detect, characterize and
 CC quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
 CC genomic and transcript-derived nucleic acid samples. This sequence
 CC represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
 XX
 SQ Sequence 17 BP; 3 A; 8 C; 4 G; 2 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 17;
 Best Local Similarity 86.7%; Pred. No. 5e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 383 CGACCAAGGGGCCAA 397
 QY 2 CGACCAAGGGCCAA 16
 RESULT 1114
 ADD20931/C
 ID ADD20931 standard; DNA; 17 BP.
 XX
 AC ADD20931;
 XX
 DT 15-JAN-2004 (first entry)
 XX
 DE Human GAP_N DNA 17-mer oligo #163.
 XX
 KW gene therapy; antibody therapy; modulator of GAPN;
 KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
 KW
 KW immunosuppressants; immunoenhancers; treatment; diagnosis; screening;
 KW immune disorders; transporter peptides; proteasome complex;
 KW MHC class I molecules; HLA; antigen processing; antigen presentation;
 KW autoimmune disease; ankylosing spondylitis; prenatal diagnosis;
 KW polymerase chain reaction; ss.

PT versus host disease and selective cell killing in-vivo.
 XX Example 10; Page 67; 163pp; English.
 PS
 XX
 OS Synthetic.
 XX WO9211289-A1.
 PN 09-JUL-1992.
 PD
 XX 19-DEC-1991; 91WO-GB00227B.
 PR 19-DEC-1990; 90GB-00027520.
 PR 16-SEP-1991; 91GB-00019711.
 PA XX (IMCR) IMPERIAL CANCER RES TECHNOLOGY.
 PT Trowdale J, Kelly AP, Glynn R, Powis SH;
 PI XX WPI; 1992-250030/30.
 DR
 XX
 PT DNA encoding RING4, RING10, RING11 AND RING12 proteins - for treatment
 PT and diagnosis of immune disorders and screening of new immunosuppressants
 PT and immuno-enhancers.
 XX
 PS Example 2; Page 40; 101pp; English.
 XX
 CC This Probe was used together with AAQ26546-51 to analyse caucosoid
 CC controls by oligonucleotide typing, whilst investigating RING 11
 XX polymorphisms - see AAQ26546-5
 SQ Sequence 18 BP; 3 A; 6 C; 6 G; 3 T; 0 U; 0 Other;
 DT Query Match 2.8%; Score 11.8; DB 1; Length 18;
 CC Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC SQ 267 CACCTGGAGGAGGC 281
 Db 2 CTCCCTGGACTGGGC 16
 RESULT 1116
 AAQ42271
 ID AAQ42271 standard; cDNA; 18 BP.
 XX
 AC AAQ34632;
 XX DT 25-MAR-2003 (revised)
 DT 10-MAY-1993 (first entry)
 XX DB Human bcr-abl junction mRNA transcript anti-sense oligonucleotide.
 XX KW Leukemia; treatment; blast crisis; specific; CML; translocation;
 KW Philadelphia chromosome; chronic myeloid; chronic myelogenous; leukemia;
 KW ss.
 XX OS Synthetic.
 XX PN WO922303-A1.
 XX PR 23-DEC-1992.
 XX PD
 XX DE 15-JUN-1992; 92WO-US0095035.
 XX DT 18-JUN-1991; 91US-00718302.
 XX PR 14-APR-1992; 92US-00869911.
 XX PA (UTEM) UNIV TEMPLE.
 XX PI Calabretta B, Gewirtz AM;
 XX DR
 XX PI; 1993-017893/02.
 XX
 PT Treating Phi-positive leukaemia(s) using bcr-abl anti-sense oligo-
 PT nucleotide(s) - to selectively inhibit leukemic cell proliferation
 PT without adversely affecting normal haematopoiesis.
 XX
 PS Disclosure; Page 51; 74pp; English.
 XX
 CC The sequence is that of an antisense oligonucleotide complementary (with
 CC two mismatches) to a target sequence of the bcr-abl mRNA transcript
 CC AAQ34631, which includes the bcr-abl translocation junction and not more
 CC than about 13 nucleotides of the abl-derived portion of the transcript.
 CC It is used as part of a method to treat leukaemias characterised by the
 CC Philadelphia chromosome translocation. It is highly selective and patient
 CC specific unlike conventional chemotherapy, which affects non-malignant
 CC cells. Dosage selection is thus less critical than with conventional
 CC treatment. (Updated on 25-MAR-2003 to correct PN field.)
 XX SQ Sequence 18 BP; 2 A; 6 C; 5 G; 5 T; 0 U; 0 other;
 PT Analogues of type I ribosome inactivating protein - useful as cytotoxic
 PT agents, immuno toxins for treating auto immune diseases, cancer, graft

Query Match	2.8%	Score 11.8;	DB 1;	Length 18;	XX
Best Local Similarity	86.7%;	Pred. No. 5.6e+02;	DB 1;	Indels 0;	DT
Matches	13;	Conservative 0;	Mismatches 2;	Gaps 0;	DT
Y	398	GAAGGCTTCAAGT	412		10-MAY-1993 (first entry)
b					
Db		GCAGGGCTTCAGT	15		
RESULT 1118					
D	AAQ34633	standard; cDNA; 18 BP.			
CX	AAQ34633;				
CQ					
XX	25-MAR-2003	(revised)			
XX	25-MAR-2003	(revised)			
XX	10-MAY-1993	(first entry)			
XX					
DE	Human b1a2 breakpoint sequence.				
XX					
KW	Leukaemia; treatment; blast crisis; specific; CML; translocation;				
KW	Philadelphia chromosome; chronic myeloid; chronic myelogenous; leukemia;				
KW	bcr; abl; ss.				
XX					
OS	Synthetic.				
XX					
PN	W09222303-A1.				
XX					
PD	23-DRC-1992.				
XX					
PT	10-MAY-1993	(first entry)			
XX					
PR	Human bcr-abl junction mRNA transcript antisense oligonucleotide.				
XX					
PR	Leukaemia; treatment; blast crisis; specific; CML; translocation;				
PR	Philadelphia chromosome; chronic myeloid; chronic myelogenous; leukemia;				
PR	ss.				
SB					
XX					
PI	Synthetic.				
XX					
PN	W09222303-A1.				
XX					
PD	23-DEC-1992.				
XX					
PP	15-JUN-1992;	92WO-US005035.			
XX					
PR	18-JUN-1991;	91US-00718302.			
PR	14-APR-1992;	92US-00869911.			
PA	(UTEM) UNIV TEMPLE.				
XX					
PI	Calabretta B, Gewirtz AM;				
XX					
DR	WPI; 1993-017893/02.				
XX					
PT	Treating Phil-positive leukaemia(s) using bcr-abl anti-sense oligo-				
PT	nucleotide(s) - to selectively inhibit leukaemic cell proliferation				
PT	without adversely affecting normal haematopoiesis.				
XX					
PS	Example; Page 38; 74pp; English.				
XX					
CC	The sequence is that of the breakpoint junction from RNA isolated from				
CC	cell line ALL-1 derived from a Phil-positive ALL patient (Erikson et al.				
CC	1986). The Junction sequence was used in the prepn. of antisense				
CC	oligonucleotides which can be used as part of a method to treat				
CC	leukemias characterised by the Philadelphia chromosome translocation.				
CC	This method is highly selective and patient specific unlike conventional				
CC	chemotherapy, which affects non-malignant cells. Dosage selection is thus				
CC	less critical than with conventional treatment. (Updated on 25-MAR-2003				
CC	to correct PN field.)				
XX					
SQ	Sequence 18 BP; 5 A; 6 C; 5 G; 2 T; 0 U; 0 Other:				
XX					
PS	Query Match	2.8%	Score 11.8;	DB 1;	Length 18;
PS	Best Local Similarity	86.7%;	Pred. No. 5.6e+02;	DB 1;	Indels 0;
PS	Matches	13;	Conservative 0;	Mismatches 2;	Gaps 0;
PS					
QY	398	GAAGGCTTCAAGT	412		
Db					
Db	18	GAAGGCTTCAGT	4		
RESULT 1120					
ID	AAQ6497				
XX	AAQ6497 standard; DNA; 18 BP.				
AC	AAQ64697;				
XX	25-MAR-2003	(revised)			
DT	03-JAN-1995	(first entry)			
XX					
DB	bla2 junction antisense oligonucleotide.				
XX					
KW	Translocation; bcr-abl; b2a2; L-6; b3a2; b1a2; proliferation;				
KW	neoplastic cell; cancer; tumour; proto-oncogene; antisense;				
KW	oligonucleotide; chronic myelogenous Leukemia; CML;				
KW	acute lymphocytic leukemia; ALL; ss.				
XX					
OS	Synthetic.				
XX					
Key	Location/Qualifiers				
AC	AAQ34638;				
XX					
TD	AAQ34638 standard; cDNA; 18 BP.				
XX					
AC	AAQ34638;				
XX					

misc_feature 9. .10
 FT /*tag= a
 FT /note= "breakpoint"
 XX
 PN WO9408625-A1.
 XX PD 28-APR-1994.
 XX PR 10-AUG-1993; 93WO-US007541.
 XX PR 21-OCT-1992; 92US-00965671.
 XX PA (UTEM) UNIV TEMPLE.
 PA (UYTE-) UNIV JEFFERSON THOMAS.
 XX PI Calabretta B, Skorski T;
 DR WPI; 1994-150555/18.
 XX PT Inhibiting proliferation of neoplastic cells - by using oncogene or proto
 PT -oncogene anti-sense oligo:nucleotide and non-oligo:nucleotide
 PT chemotherapeutic agent.
 XX PS Disclosure; Page 48; 110pp; English.
 XX CC The bcr-abl antisense oligonucleotide is complementary to a position of
 CC the bcr-abl mRNA corresp. to the breakpoint Junction between the bcr-
 CC derived and abl-derived portions of the mRNA. Most pref. antisense
 CC oligonucleotides complementary to the b2a2 junction includes the
 CC sequences given in AAQ6481-87. Most pref. antisense oligonucleotides
 CC complementary to the b3a2 Junction includes the sequences given in
 CC AAQ64688-94. Most pref. antisense oligonucleotides complementary to the
 CC b3a2 Junction include the sequences given in AAQ64695-701. (Updated on
 CC 25-MAR-2003 to correct PN field.)
 XX SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 other;
 CC Query Match 2.8%; Score 11.8; DB 1; Length 18;
 CC Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC Qy 398 GAGGCTTCAGT 412
 CC Db 1 GAGGACTTCAGT 15
 RESULT 1121
 AAQ57173 AAQ57173 standard; mRNA; 18 BP.
 ID AAQ57173:
 XX AC AAQ76140;
 XX DT 25-MAR-2003 (revised)
 DT 28-JUL-1995 (first entry)
 XX DE Fd gene 3' (constant region) PCR primer KBA-gamma2.
 XX KW Gelonin; cytotoxic therapeutic agents; autoimmune disease; cancer;
 KW graft-versus-host disease; PCR primer; Fd gene; ss.
 XX OS Synthetic.
 XX PN WO9426910-A1.
 XX PD 24-NOV-1994.
 XX PR 12-MAY-1994; 94WO-US005348.
 XX PR 12-MAY-1993; 93US-00064691.
 XX PA (XOMA) XOMA CORP.
 XX PI Better MD, Carroll SF, Studnicka GM;
 XX DR WPI; 1995-006804/01.
 XX PT Polynucleotide(s) encoding type I ribosome-inactivating proteins - which
 PT are suitable for use as components of cytotoxic therapeutic agents.
 XX Example 14; Page 93; 221PP; English.
 XX CC AAQ76140 and AAQ6481 are a pair of primers for the PCR amplification of
 CC the Fd gene 3' (constant region), they were used in the construction of a
 CC Fd:RNA Linker:galonin cytotoxic therapeutic agent (CTA).
 CC CTA can be used in the treatment of diseases where the
 CC elimination of a particular cell type is desired, such as autoimmune
 CC

CC	disease, cancer and graft-versus-host disease. (Updated on 25-MAR-2003 to correct PN field.)
XX	
SQ	Sequence 18 BP; 2 A; 7 C; 4 G; 5 T; 0 U; 0 Other;
	Query Match 2.8%; Score 11.8; DB 1; Length 18; Best Local Similarity 86.7%; Pred. No. 5.6e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy	344 CCGGCTGTCTACAG 358
Db	3 CCGGCCTCTACAG 17
	RESULT 1123
	AAQ87648/C
	ID AAQ87648 standard; DNA; 18 BP.
	XX
	AC AAQ92348;
	XX
	DT 25-MAR-2003 (revised)
	DT 01-JAN-1996 (first entry)
	DE PCR primer KBA-gamma2 for linking RMA linker with Fd gene.
	XX
	RMA linker segment; Fd; PCR primer; ss.
	XX
	OS Synthetic.
	XX
	PN USS416202-A.
	XX
	PD 16-MAY-1995.
	XX
	PF 09-DEC-1992; 92US-00988430.
	XX
	PR 04-NOV-1991; 91US-00787567.
	XX
	PR 19-JUN-1992; 92US-00901707.
	XX
	PA (XOMA) XOMA CORP.
	XX
	PI Lei S, Carroll SF, Lane JA, Bernhard SI, Better MD;
	XX
	DR WPI; 1995-133480/25.
	XX
	PT Polynucleotide(s) encoding gelonin analogues - having a cysteine residue
	XX
	PT for intermolecular bonding for the prodn. of immuno-toxin(s).
	XX
	PS Example; Col 41; 66pp; English.
	XX
	CC Plasmid pSH4 contains an Fd gene linked in frame to the RMA linker
	CC sequence. The RMA gene segment was linked to the 3'-end of Fd by overlap
	CC extension PCR as follows. The 3'-end (constant region) of the Fd gene was
	CC amplified by PCR from a source plasmid with the primers KBA-gamma2 and
	CC RMA2-1. The product of this reaction was mixed with primer RMA-75, which
	CC annealed to the amplified product of the first reaction, and the mixture
	CC was amplified with primers KBA-gamma2 and RMAK-2. (Updated on 25-MAR-2003
	CC to correct PR field.)
	XX
	SQ Sequence 18 BP; 2 A; 7 C; 4 G; 5 T; 0 U; 0 Other;
	Query Match 2.8%; Score 11.8; DB 1; Length 18; Best Local Similarity 86.7%; Pred. No. 5.6e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy	344 CCGGCTGTCTACAG 358
Db	3 CCGGCCTCTACAG 17
	RESULT 1125
	AAT28318/C
	ID AAT28318 standard; DNA; 18 BP.
	XX
	AC AAT28318;
	XX
	DT 19-NOV-1996 (first entry)
	XX
	DE Multi-G oligonucleotide rb SCR (random).
	XX
	KM Multi-G oligonucleotide; antisense sequence; c-myb; nuclease resistant;
	KM phosphorothioate linkage; phosphordithioate linkage; inhibitor; therapy;
	KM cell proliferation; smooth muscle cell; proliferation protein;
	KM vascular restenosis; arterial restenosis; ss.
	XX
	CONTINUE

PD 18-APR-1996.
 XX
 PF 03-OCT-1995; 95WO-US012770.
 XX
 PR 05-OCT-1994; 94US-00318458.
 XX
 PA (AMER-) AMGEN INC.
 XX
 PI Burgess TL, Farrell CL, Fisher EF,
 XX
 DR WPI; 1996-209848/21.

PT New modified oligo-nucleotide(s) contg. consecutive guanine residues -
 PT inhibit proliferation of smooth muscle cells, esp. to prevent arterial
 XX restenosis.

PS Example 1; Page 41; 67pp; English.

XX AAT28317-T28347 represent multi-G oligonucleotides. AAT28317-T28324 are
 CC based on an antisense sequence against the c-myc target. These sequences
 CC are oligonucleotides of the invention. These sequences can be modified to
 CC become more nuclease resistant, using phosphorothioate,
 CC phosphorodithioate, or 3'-carbon modified links. To screen for modified
 CC multi-G sequences that inhibit cell proliferation, cultured smooth muscle
 CC cells that are arrested in the G0 phase, are induced to proliferate in
 CC the presence of the multi-G sequence. The cultured smooth muscle cells
 CC used in this method are attached to a solid support, and growth arrest is
 CC achieved on a starvation medium, followed by transfer to a normal growth
 CC medium to induce proliferation. The compounds that provide over 50%
 CC inhibition at a set dosage are selected as being useful for inhibiting
 CC vascular restenosis. The multi-G oligonucleotides are used to inhibit
 CC proliferation of smooth muscle cells, such as to prevent arterial
 CC restenosis. These sequences are not antisense sequences, but are thought
 CC to work in a similar way. The sequences are thought to act by binding to
 CC proteins involved in the proliferation process. Compounds containing
 CC these multi-G oligonucleotides are not toxic, and their effect on cell
 XX proliferation is fully reversible

SQ Sequence 18 BP; 0 A; 6 C; 9 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 379 ACCGGACGAGGAGCG 393
 Db 15 ACCGGCGGAGCG 1

RESULT 1126
 AAT60160/C
 ID AAT60160 standard; DNA; 18 BP.
 XX
 AC AAT60160;
 XX
 DT 01-DBC-1997 (first entry)
 XX
 DE Collagen gene promoter region binding oligomer Oligo 164 APs.
 XX
 KW Triplex; inhibition; collagen gene; promoter; pathological fibrosis;
 KW myocardial fibrosis; hypertensive heart disease; atherosclerosis;
 KW restenosis; liver cirrhosis; lung fibrosis; skin fibrosis; scleroderma;
 KW hypertrophic scar; burn injury; rat; polypurine; polypyrimidine; ss.
 XX
 OS Synthetic.
 XX
 PH misc_feature 1..18 /*tgc= a
 PT /note= "Phosphorothioate linkages"
 XX
 FN WO9710254-A1.
 XX
 PD 20-MAR-1997.
 XX
 PF 12-SEP-1996; 96WO-US014640.
 XX
 PR 15-SEP-1995; 95US-00528836.
 PR 11-SEP-1996; 96US-00712357.
 XX
 PA (GUNI/) GUNTAKA R V.
 XX
 PI Guntaka RV, Weber KT, Kovacs A, Kandala J;
 XX
 DR WPI; 1997-202172/18.

PT Triplex forming oligomer binds to collagen gene promoter region - used to
 PT impede pathological fibrosis etc.

XX
 PS Claim 18; Page 36; 52pp; English.

XX An oligomer has been produced which is capable of inhibiting expression
 CC of a collagen gene. The present sequence represents a specifically
 CC claimed oligomer Oligo 164 APs, which binds to the polypurine-
 CC polypyrimidine region of the rat alpha1(I) collagen gene promoter region.
 The oligomer may be used to impede pathological fibrosis which is
 CC associated with myocardial fibrosis in hypertensive heart diseases,
 CC atherosclerosis, restenosis, liver cirrhosis, lung fibrosis, and skin
 CC fibrosis found in scleroderma, in hypertrophic scars and in skin
 CC following burn injury. The oligomer inhibits expression of a collagen
 CC gene after insertion into a cell by causing an intracellular reaction
 CC which inhibits gene expression. The oligomer is preferably a triplex
 CC forming oligomer (TFO) which is targeted to a 30-mer polypurine
 CC oligonucleotide corresponding to the noncoding strand of the promoter
 CC between -170 and -140. This section was chosen due to its binding
 CC stability at physiological pH

SQ Sequence 18 BP; 7 A; 0 C; 11 G; 0 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 362 CTTCCTCACTTCT 376
 Db 18 CCTCCCTCCTTCCT 4

RESULT 1127
 AAT60165/C
 ID AAT60165 standard; DNA; 18 BP.
 XX
 AC AAT60165;
 XX
 DT 01-DBC-1997 (first entry)
 XX
 DE Collagen gene promoter region binding oligomer Oligo 164 AP.
 XX
 KW Triplex; inhibition; collagen gene; promoter; pathological fibrosis;
 KW myocardial fibrosis; hypertensive heart disease; atherosclerosis;
 KW restenosis; liver cirrhosis; lung fibrosis; skin fibrosis; scleroderma;
 KW hypertrophic scar; burn injury; rat; polypurine; polypyrimidine; ss.
 OS Synthetic.
 XX
 PN WO9710254-A1.
 XX
 PD 20-MAR-1997.
 XX
 PF 12-SEP-1996; 96WO-US014640.
 XX
 PR 15-SEP-1995; 95US-00528836.
 PR 11-SEP-1996; 96US-00712357.
 XX
 PA (GUNI/) GUNTAKA R V.

PI Guntaka RV, Weber KT, Kovacs A, Kandala J;
 XX DR WPI; 1997-202172/18.
 XX PT Triplex forming oligomer binds to collagen gene promoter region - used to
 XX impede pathological fibrosis etc.
 XX PS Example 4; Page 35; 52pp; English.
 An oligomer has been produced which is capable of inhibiting expression
 of a collagen gene. The present sequence represents a specifically
 polyprymidine region of the rat alpha(I) collagen gene promoter region.
 The oligomer may be used to impede pathological fibrosis which is
 associated with myocardial fibrosis in hypertensive heart diseases,
 atherosclerosis, restenosis, liver cirrhosis, lung fibrosis, and skin
 fibrosis found in scleroderma, in hypertrophic scars and in skin
 following burn injury. The oligomer
 CC inhibits expression of a collagen gene after insertion into a cell by
 CC causing an intracellular reaction which inhibits gene expression. The
 CC oligomer is preferably a triplex forming oligomer (TFO) which is targeted
 CC to a 30-mer polyprymidine oligonucleotide corresponding to the noncoding
 CC strand of the promoter between -170 and -140. This section was chosen due
 CC to its binding stability at physiological pH
 XX Sequence 18 BP; 7 A; 0 C; 11 G; 0 T; 0 U; 0 other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Qy 362 CTCCTCACTTCT 376
 Db 18 CCTCCCTCCTTCT 4
 RESULT 1128
 ART60158/C ID AAT60158 standard; DNA; 18 BP.
 XX AC AAT60158;
 XX DT 01-DEC-1997 (first entry)
 DB Collagen gene promoter region binding oligomer Oligo 147 P.
 XX KW Triplet; inhibition; collagen gene; promoter; pathological fibrosis;
 KW myocartil fibrosis; hypertensive heart disease; atherosclerosis;
 KW restenosis; liver cirrhosis; lung fibrosis; skin fibrosis; scleroderma;
 KW hypertrophic scar; burn injury; rat; polyprymidine; ss.
 OS Synthetic.
 XX OS WO9710254-A1.
 PA PN 20-MAR-1997.
 XX PR 12-SEP-1996; 96WO-US014640.
 XX PR 15-SEP-1995; 95US-00528836.
 XX PR 11-SEP-1996; 96US-00712357.
 PA (GINT/) GUNTAKA R V.
 XX PI Okkels JS;
 XX DR WPI; 1997-165289/15.
 XX PT Preparing polypeptide variants with improved functional properties - by
 PT in vivo recombination between opened plasmid and homologous DNA, to
 produce e.g. enzymes with improved washing and dishwashing properties.
 XX PS Example 3; Page 41; 68pp; English.
 XX CC PCR primers (AAT61596-604) are used to amplify fragments of the *Hunicola lanuginosa* lipase gene coding sequence (see also AAT61593). For example,
 CC primer 4599 (AAT61597) can be used with primer 5164 (AAT61598) to make a
 CC 900 bp fragment. The lipase gene fragments are used in an improved method
 CC of preparing positive polypeptide variants (see also AAW13557-58). This
 CC involves shuffling opened plasmid and homologous DNA sequences in an
 CC iterative in vivo recombination system using a eukaryotic cell (such as
 CC yeast) as a recombination host cell.
 XX Sequence 18 BP; 3 A; 7 C; 6 G; 2 T; 0 U; 0 other;
 SQ

CC of a collagen gene. The present sequence represents a specifically
 CC claimed oligomer Oligo 147 P, which binds to the polyprymidine-
 CC polyprymidine region of the rat alpha(I) collagen gene promoter region.
 CC The oligomer may be used to impede pathological fibrosis which is
 CC associated with myocardial fibrosis in hypertensive heart diseases,
 CC atherosclerosis, restenosis, liver cirrhosis, lung fibrosis, and skin
 CC fibrosis found in scleroderma, in hypertrophic scars and in skin
 CC following burn injury. The oligomer inhibits expression of a collagen
 CC gene after insertion into a cell by causing an intracellular reaction
 CC which inhibits gene expression. The oligomer is preferably a triplex
 CC forming oligomer (TFO) which is targeted to a 30-mer polyprymidine
 CC oligonucleotide corresponding to the noncoding strand of the promoter
 CC between -170 and -140. This section was chosen due to its binding
 CC stability at physiological pH
 SQ Sequence 18 BP; 7 A; 0 C; 11 G; 0 T; 0 U; 0 other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Qy 362 CTCCTCACTTCT 376
 Db 18 CCTCCCTCCTTCT 4
 RESULT 1129
 ART61597/C ID AAT61597 standard; DNA; 18 BP.
 XX AC AAT61597;
 XX DT 22-OCT-1997 (first entry)
 DE Humicola lanuginosa lipase gene fragment PCR primer 4699.
 XX PN WO9707205-A1.
 XX PD 27-FEB-1997.
 XX PR 12-AUG-1996; 96WO-DK000343.
 XX PR 11-AUG-1995; 95DK-00000907.
 PR 20-SEP-1995; 95DK-00001047.
 XX PA (NOVO) NOVO-NORDISK AS.
 XX PI Okkels JS;
 XX DR WPI; 1997-165289/15.
 XX PT Preparing polypeptide variants with improved functional properties - by
 PT in vivo recombination between opened plasmid and homologous DNA, to
 produce e.g. enzymes with improved washing and dishwashing properties.
 XX PS Example 3; Page 41; 68pp; English.
 XX CC PCR primers (AAT61596-604) are used to amplify fragments of the *Hunicola lanuginosa* lipase gene coding sequence (see also AAT61593). For example,
 CC primer 4599 (AAT61597) can be used with primer 5164 (AAT61598) to make a
 CC 900 bp fragment. The lipase gene fragments are used in an improved method
 CC of preparing positive polypeptide variants (see also AAW13557-58). This
 CC involves shuffling opened plasmid and homologous DNA sequences in an
 CC iterative in vivo recombination system using a eukaryotic cell (such as
 CC yeast) as a recombination host cell.
 XX Sequence 18 BP; 3 A; 7 C; 6 G; 2 T; 0 U; 0 other;
 SQ

Query Match	2.8%	Score 11.8;	DB 1;	Length 18;			DT 24-NOV-1998 (first entry)
Best Local Similarity	86.7%	Pred. No. 5.6e+02;	Mismatches 0;	Indels 2;	Gaps 0;		XX Human uncoupling protein-2 UCP2 gene reverse primer hUCP2g.e4r2.
Matches	13;	Conservative					XX
QY	305 GAGCCCCGGGACCG 319						KW Uncoupling protein-2; UCP2 gene; human; respiration; thermogenesis; KW obesity; hyperinsulinaemia; glucose intolerance; diabetes; syndrome X; KW hypothermia; wasting; cachexia; anorexia; inflammation; fever; KW hyperthermia; gene therapy; diagnosis; PCR; primer; ss.
Db	15 GATCCCCGGGTACCG 1						XX OS Synthetic. OS Homo sapiens.
RESULT	1130						XX PN WO9831396-A1.
							XX PD 23-JUL-1998.
							XX PP 22-APR-1997; 97WO-US006864.
DT	22-OCT-1997 (first entry)						XX PR 15-JUN-1997; 97US-0034960P.
XX							XX PA (UVD(-) UNIV DUKE. PA (REGC) UNIV CALIFORNIA. PA (CNRS) CENT NAT RESCH SCI.
DE	Humicola lanuginosa lipase gene fragment PCR primer 4699.						XX PI Surwit RS, Collins SA, Warden CH, Seldin MF, Ricquier D;
XX							XX PI Bouillaud F;
KW	Lipase; polypeptide variant; in vivo recombination; shuffling;						XX DR WPI; 1998-413823/35.
KW	Saccharomyces cerevisiae; Humicola lanuginosa; detergent;						XX PT Method for treating disease associated with altered UCP-2 expression - by PT administering agent which enhances or inhibits UCP-2 activity, PT effectively to treat obesity, diabetes, fever, hyperthermia, cachexia etc.
PR	polymerase chain reaction; PCR; primer; ss.						XX PT WPI; 1997-165290/15.
PR	20-SEP-1995; 95DK-00001047.						XX PS Example IX; Page 46; 98pp; English.
PA	(NOVO) NOVO-NORDISK AS.						XX CC Primer hUCP2g.e4r2 is used with forward primer hUCPg.e4f2 (see AAV44605) CC in the PCR amplification of bp 1958-2281 in exon 4 of the human CC uncoupling protein-2 (UCP2) gene. Primers (see AAV4403-18) were designed CC to amplify hUCP2 exons 4, 6, 7 and 8 from genomic DNA. Common amino acid CC variants (see AAW63166) are present in exons 4, 6 and 8; A55V in exon 4, CC N190S in exon 6, and L224M in exon 8 (see also AAV4595). Restriction enzymes CC have been identified that would differentially digest each CC of the alleles. The invention relates to a method for treating disease CC associated with altered UCP2 expression, such as obesity, diabetes, CC Syndrome X, hypothermia, hyperinsulinaemia, glucose intolerance, wasting, CC anorexia, inflammation, cachexia, fever or hyperthermia.
PA	Okkels JS;						XX SQ Sequence 18 BP; 4 A; 3 C; 8 G; 3 T; 0 U; 0 Other;
XX	Preparing polypeptide variants with improved functional properties - by PT in vivo recombination between opened plasmid and homologous DNA, to PT produce e.g. enzymes with improved washing and dishwashing properties.						XX QY Query Match 2.8%; Score 11.8; DB 1; Length 18; XX Best Local Similarity 86.7%; Pred. No. 5.6e-02; Mismatches 0; Indels 2; Gaps 0; XX Matches 13; Conservative 0; OS
XX	WPI; 1997-165290/15.						XX QY 330 GCGAGGACCAAGGC 344 XX Db 4 GCGAGGACCAAGGC 18
PS	Example 3; Page 41; 68pp; English.						XX RESULT 1132
XX	PCR primers (AAT61607-615) are used to amplify fragments of the Humicola lanuginosa lipase gene coding sequence (see also AAT61593). For example, primer 4699 (AAT61608) can be used with primer 5164 (AAT61609) to make a 900 bp fragment. The lipase gene fragments are used in an improved method of preparing positive polypeptide variants (see also AAV3561-62). This involves shuffling opened plasmid and homologous DNA sequences in an iterative in vivo recombination system using a eukaryotic cell (such as yeast) as a recombination host cell						XX DR AAV4604 XX ID AAV4604 standard; DNA; 18 BP.
SQ	Sequence 18 BP; 3 A; 7 C; 6 G; 2 T; 0 U; 0 Other;						XX AC AAV46204; XX DR 16-OCT-1998 (first entry)
Query Match	2.8%; Score 11.8; DB 1; Length 18;						XX DE Human HLA-A Primer 11-214n.
Best Local Similarity	86.7%; Pred. No. 5.6e+02;						XX KW Histocompatibility locus antigen; HLA-A class I; human; class typing;
Matches	13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;						XX KW donor; host; tissue transplantation; primer; ss.
QY	305 GAGCCCCGGGACCG 319						XX OS Synthetic.
Db	15 GATCCCCGGGTACCG 1						
RESULT	1131						
AAV4605							
ID	AAV4606 standard; DNA; 18 BP.						
XX							
AC	AAV4605;						
XX							

OS Homo sapiens.
 XX
 PN WO9926091-A2.
 XX
 PD 18-JUN-1998.
 XX
 PT 12-DEC-1997; 97WO-CA000955.
 XX
 PR 12-DEC-1996; 96US-00766189.
 XX
 PA (VIST-) VISIBLE GENETICS INC.
 XX
 PI Blasczyk RH, Leushner J;
 XX
 DR WPI; 1998-348544/30.
 XX
 PT HLA Class I typing - by Primer-based amplification of target DNA using
 XX group-specific untranslated region primer pair.
 XX
 PS Claim 4; Page 122; 185pp; English.
 XX
 AAV4654 and AAV46200-Va6264 are primers used in isolating human
 CC histocompatibility locus antigen (HLA-A) Class I alleles which are used
 CC in a novel method of HLA Class I typing. The method involves combining a
 CC group-specific untranslated region primer pair with a target DNA to allow
 CC primer-based amplification of the DNA, and determining whether a nucleic
 CC acid product is produced by the amplification. The ability of the primer
 CC pair to produce a product is associated with a particular HLA group type.
 CC The methods can be used for typing the 3 classical HLA Class I genes
 CC (comprising the Loci HLA-A, HLA-B and HLA-C) in e.g. donors and hosts
 CC for tissue transplantation. The initial group specific amplification
 CC allows a PCR based separation of haplotypes in 95% of patient samples.
 CC The subsequent sequencing can provide for high-resolution typing.
 XX Sequence 18 BP; 2 A; 5 C; 10 G; 1 T; 0 U; 0 Other;
 XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 13; Conservative 0;
 Db 1 Gccatcgggggg 15
 QY 138 CGCTTGGGGTGAG 152
 Db
 RESULT 1133
 AAV54355
 ID AAV54355 standard; DNA; 18 BP.
 AC
 XX
 AAV54355;
 AC
 DT 15-JAN-1999 (first entry)
 DE Human cell type PCR anchor primer K3.
 DE
 KW Identification; gene expression; conserved motif; target; metastatic;
 KW non-metastatic; non-cancerous tissue; nucleic acid analysis; PCR primer;
 KW ss.
 XX
 OS Synthetic.
 OS Homo Sapiens.
 XX
 PN WO9839480-A1.
 XX
 PD 11-SEP-1998.
 XX
 PT 03-MAR-1998; 98WO-US004094.
 XX
 PR 03-MAR-1997; 97US-00785522.
 XX
 PA (HAQQI-) HAQQI T M.
 XX
 PI Haqqi TM;
 XX
 XX DR WPI; 1998-506373/43.
 XX
 PT Method of analysing nucleic acid in a sample - used for analysing
 PT expressed genes, and distinguishing between metastatic, non-metastatic
 and non-cancerous tissues.
 XX
 PS Example 1; Page 24; 55pp; English.
 XX
 A novel method has been developed of analysing a nucleic acid in a
 CC sample. The method comprises: (a) Providing: (i) a sample containing
 CC nucleic acid; (ii) a first primer having a sequence of which at least a
 CC portion is at least partially complementary to a natural common non-
 CC coding sequence on a portion of the nucleic acid of the sample; (iii) a
 CC second primer having a sequence of which at least a portion is at least
 CC partially complementary to a restriction enzyme recognition sequence
 CC present on a portion of the nucleic acid of the sample; and (iv) a
 CC polymerase and polymerase chain reaction (PCR) reagents; (b) preparing
 CC the nucleic acid from the sample under conditions so as to produce
 CC amplifiable nucleic acid; (c) amplifying the nucleic acid used with the first
 CC and second primers, the polymerase and the PCR reagents under conditions
 CC such that amplified product is generated; and (d) detecting the amplified
 CC product. The method can be used for analysing expressed genes in multiple
 CC samples, especially in human cancer cells. The method can also be used to
 CC distinguish between metastatic and non-metastatic cancer tissues as well
 CC as between normal and cancerous tissue. It can also be used to detect
 CC drug resistance. The method can also be used to classify and identify
 CC microorganisms. The present sequence represents a PCR anchor primer used
 CC in an example from the present invention.
 XX Sequence 18 BP; 2 A; 7 C; 5 G; 2 T; 0 U; 2 Other;
 XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 72.2%; Pred. No. 5.6e+02; Mismatches 1; Indels 0; Gaps 0;
 Matches 13; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
 Db 1 CGGATCCGCCRNAGC 18
 QY 250 CGGGTGGCCGGGRC 267
 Db
 RESULT 1134
 AAV735048
 ID AAV735048 standard; DNA; 18 BP.
 XX
 AC AAV735048;
 AC
 XX
 DT 13-OCT-1998 (first entry)
 DE Hordeum vulgare MLO gene PCR primer.
 XX
 KW Barley; MLO; mildew; pathogen; resistance; PCR primer; ss.
 XX
 OS Synthetic.
 OS Hordeum vulgare.
 XX
 PN WO9804586-A2.
 XX
 PD 05-FEB-1998.
 XX
 PT 29-JUL-1997; 97WO-GB002046.
 XX
 PR 29-JUL-1996; 96GB-000115879.
 PR 30-OCT-1996; 96GB-00022626.
 PR 07-MAR-1997; 97GB-00004789.
 XX
 PA (INNE-) INNES CENT INNOVATIONS LTD JOHN.
 XX
 PI Schulzeleffert PMJ, Panstruga R, Bueschges R;
 XX
 DR WPI; 1998-159149/14.
 XX
 New isolated Mlo gene of barley - used to develop products for the

PT	production of transgenic plants which have increased pathogen resistance.
PS	Disclosure; Page 90; 150PP; English.
CC	The sequence is that of a PCR primer used in the amplification of the MLO gene
XX	Sequence 18 BP; 1 A; 4 C; 7 G; 6 T; 0 U; 0 Other;
SQ	Query Match 2.8%; Score 11.8; DB 1; Length 18; Best Local Similarity 86.7%; Pred. No. 5.6e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	147 GTGGAGCCGCTTC 161 3 GTGGAGCCGCTTC 17
Db	
RESULT 1135	
ID	AAV48537 standard; DNA; 18 BP.
XX	
AC	AAV48537;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	p53 gene antisense oligonucleotide p53- η -2.
XX	
KW	p53; antisense oligonucleotide; modulate; gene expression; ss.
XX	
OS	Synthetic.
OS	Homo sapiens.
XX	
PN	EP855579-A1.
XX	
PD	05-AUG-1998.
XX	
PR	31-JAN-1997; 97EP-00101531.
XX	
PR	31-JAN-1997; 97EP-00101531.
XX	
PA	(BIOG-) BIONOSTIK GBS BIOMOLEKULARE DIAGNOSTIK.
XX	
PI	Schlingensiepen K, Brysch W;
XX	
DR	WPI; 1998-400910/35.
XX	
PT	Preparation of antisense oligo:nuclotid(s) which lack long runs of consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate growth of cells in culture.
XX	
PT	Preparation of antisense oligo:nucleotide(s) which lack long runs of consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate growth of cells in culture.
XX	
PS	Example 2; Fig 4b; 286pp; English.
XX	
QY	AAV48485-564 represent antisense oligonucleotides directed against the p53 gene. Of those, only oligonucleotides AAV48485-517 resulted in effective down-regulation of negative growth by p53 and increased cell proliferation, while AAV4818-564 had little effect. The oligonucleotides exemplify the invention. The specification describes oligonucleotides that contain 8-30 nucleotides, which contain at most 8 nucleotides that can each form three hydrogen bonds to cytosine; do not contain four consecutive nucleotides able to form three H-bonds each to four consecutive cytosines; do not contain two sequences of three consecutive nucleotides each able to form three H-bonds to three consecutive cytosines, and the ratio between residues able to form two H-bonds each (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The oligonucleotides are used to modulate expression of genes. Particularly the genes for p53, EgrB2, junB, jund, TGF-beta 1 or beta 2 to control proliferation of primary cell cultures (e.g. bone marrow stem, liver or kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The oligonucleotides can also be used to analyse function of proteins (by altering their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for stimulating the immune system
Db	
RESULT 1136	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Transforming growth factor beta-1 antisense oligonucleotide N10.
XX	
KW	Transforming growth factor beta-1; TGF beta-1; antisense oligonucleotide; modulate; gene expression; ss.
XX	
OS	Synthetic.
OS	Homo sapiens.
XX	
PN	EP855579-A1.
XX	
PD	05-AUG-1998.
XX	
PR	31-JAN-1997; 97EP-00101531.
XX	
PR	31-JAN-1997; 97EP-00101531.
XX	
PA	(BIOG-) BIONOSTIK GBS BIOMOLEKULARE DIAGNOSTIK.
XX	
PI	Schlingensiepen K, Brysch W;
XX	
DR	WPI; 1998-400910/35.
XX	
PT	Preparation of antisense oligo:nucleotide(s) which lack long runs of consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate growth of cells in culture.
XX	
PS	Example 1; Fig 3a; 286pp; English.
XX	
QY	AAV48412-84 represent antisense oligonucleotides directed against transforming growth factor beta-1 (TGF beta-1). The oligonucleotides exemplify the invention. The specification describes oligonucleotides that contain 8-30 nucleotides, which contain at most 8 nucleotides that can each form three hydrogen bonds to cytosine; do not contain four consecutive nucleotides able to form three H-bonds each to four consecutive cytosines; do not contain two sequences of three consecutive nucleotides each able to form three H-bonds to three consecutive cytosines, and the ratio between residues able to form two H-bonds each (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The oligonucleotides are used to modulate expression of genes. Particularly the genes for p53, EgrB2, junB, jund, TGF-beta 1 or beta 2 to control proliferation of primary cell cultures (e.g. bone marrow stem, liver or kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The oligonucleotides can also be used to analyse function of proteins (by altering their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for stimulating the immune system
Db	
RESULT 1137	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1138	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1139	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1140	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1141	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1142	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1143	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1144	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1145	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1146	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1147	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1148	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1149	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1150	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1151	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1152	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1153	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1154	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1155	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1156	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1157	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1158	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1159	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1160	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1161	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db	
RESULT 1162	
ID	AAV48422 standard; DNA; 18 BP.
XX	
AC	AAV48422;
XX	
DT	15-OCT-1998 (first entry)
XX	
DE	Anticancer oligonucleotide.
XX	
KW	Anticancer or (targeting TGF) for stimulating the immune system
XX	
OS	or cancer or (targeting TGF) for stimulating the immune system
XX	
PN	ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
XX	
QY	52 ACTCGAGGAGCTC 66 4 ACTCAAGGGGCTC 18
Db</	

	Matches	13;	Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;	Db	3	GCGCAGTGGACGGCA	17
Qy	273	GAGCCAGGGGACCC	287								Db			
Db	1	GGGCCCCGGCGGCACC	15								Qy			
RESULT	1137										Db			
AAZ17952											Qy			
ID	AAZ17952 standard;	DNA;	18	BP.							Db			
XX											Qy			
AC	AAZ17952;										Db			
XX											Qy			
DT	11-OCT-1999	(first entry)									Db			
XX											Qy			
DE	HOX gene specific	RT-PCR	primer.								Db			
XX											Qy			
KW	Genetic proximity;	gene expression;	cell characterisation;	homeobox gene;							Db			
KW	genetic defect;	reverse transcriptase polymerase chain reaction;	RT-PCR;								Qy			
KW	kinase genes;	protein phosphatase;	P450;	steroid receptor;	cadherin;						Db			
KW	prime;	ss.									Qy			
XX											Db			
OS	Synthetic.										Qy			
OS	Homo sapiens.										Db			
PN	W09934016 A2.										Qy			
XX											Db			
PD	08-JUL-1999.										Qy			
XX											Db			
PF	28-DEC-1998;	98WO-IL000625.									Qy			
XX											Db			
PR	29-DEC-1997;	97IL-00123793.									Qy			
PR	16-OCT-1998;	98IL-00126227.									Db			
XX											Qy			
PA	(GENE-) GENENA LTD.										Db			
XX											Qy			
PI	Vider B;										Db			
XX											Qy			
DR	WPI; 1999-419113/35.										Db			
XX											Qy			
PT	Identifying and characterizing cells by comparing the pattern of gene										Db			
PT	expression in a selected gene family.										Qy			
PS	Claim 4; Page 33; 102pp; English.										Db			
XX											Qy			
CC	The invention provides a new method for identifying and characterising										Db			
CC	cells. The method for determining the genetic proximity of a first cell										Qy			
CC	and a second cell comprises: (a) obtaining the first cell and the second										Db			
CC	(b) determining in the first cell and the second cell the pattern										Qy			
CC	of expression of genes in a selected gene family, and (c) calculating a										Db			
CC	proximity index using a specified formula. The methods can be used for										Qy			
CC	characterising cells, e.g. for determining the origin of a cell, its										Db			
CC	genetic status, whether it carries a genetic defect, or whether it is										Qy			
CC	transformed. They can be used for detecting a selected genetic defect in										Db			
CC	an individual, e.g. a fetus. They can also be used for determining the										Qy			
CC	effect of a selected treatment on a test cell. They can also be used for										Db			
CC	obtaining cells capable of expressing an homeobox related desired										Qy			
CC	property. The method uses reverse transcriptase polymerase chain reaction										Db			
CC	(RT-PCR) for determining the pattern of gene expression in a selected										Qy			
CC	gene family. Sequences AAZ1780-218342 represent primers that can be used										Db			
CC	in the RT-PCR reactions to determine the pattern of gene expression. The										Qy			
CC	gene family can be selected from a set of homeobox genes, kinase genes,										Db			
CC	protein phosphatases, P450 enzyme genes, steroid receptor										Qy			
CC	superfamily genes or cadherin superfamily genes										Db			
XX	Sequence 18 BP; 5 A; 4 C; 8 G; 1 T; 0 U; 0 Other;										Qy			
SQ	Query Match 2.8%; Score 11.8; DB 1; Length 18;										Db			
Query	Best Local Similarity 86.7%; Pred. No. 5.6e+02;										Qy			
Matches	Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;										Db			
OY	B2 GCGGAGTGGACATCA 96										Qy			
XX											Db			

RESULT 1139

AAZ1780-218342 standard; DNA; 18 BP.

Query Match 2.8%; Score 11.8; DB 1; Length 18;

OY

Best Local Similarity 86.7%; Pred. No. 5.6e+02;

XX

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY

B2 GCGGAGTGGACATCA 96

DB Human CD40 phosphorothioate antisense oligonucleotide SEQ ID NO:42.
 XX KW Identification; genetic target; gene modulation; human; probe;
 KW antisense oligonucleotide; phosphorothioate; PCR primer; antisense drug discovery;
 KW nucleotide sequence-based technology; antisense drug discovery;
 XX target validation; ss.
 OS Synthetic.
 OS Homo sapiens.
 XX WO9953101-A1.
 XX PD 21-OCT-1999.
 XX PP 13-APR-1999; 99WO-US008268.
 XX PR 13-APR-1998; 98US-0081483P.
 XX PR 28-APR-1998; 98US-00067638.
 XX PA (ISIS-) ISIS PHARM INC.
 XX Cowser LM, Baker BF, Mcneil J, Friar SM, Sasmor HM, Brooks DG;
 PI Ohasi C, Wyatt JR, Borchers AH, Vickers TA;
 XX DR WPI; 1999-620446/53.
 PT Identifying compounds which modulate expression of nucleic acids, used to
 PT provide compounds having defined physical, chemical or bioactive
 properties, e.g. antisense activity.

Example 8: Page 77; 264pp; English.

XX A method has been developed of defining a set of compounds that modulate
 CC the expression of a target nucleic acid (tNA) sequence via binding of the
 CC compounds with the tNA sequence. The method comprises generating a
 CC library of virtual compounds in silico according to defined criteria, and
 CC evaluating in silico the binding of the virtual compounds with the tNA
 CC according to defined criteria. Also described are: (1) a method of
 CC defining a set of oligonucleotides (ONs) that modulate the expression of
 CC a tNA sequence via binding of the ONs with the tNA sequence comprising
 CC generating a library of virtual compounds in silico according to defined
 CC criteria, and evaluating in silico the binding of the virtual ONs with
 CC the tNA according to defined criteria; and (2) a method of defining a set
 CC of compounds that modulate the expression of a tNA sequence via binding
 CC of the compounds with the tNA. The methods can be used for the generation
 CC and identification of synthetic compounds having defined physical,
 CC chemical or bioactive properties. Information gathered from assays of
 CC such compounds is used to identify nucleic acid sequences that are
 CC tractable to a variety of nucleotide sequence-based technologies, e.g.
 CC antisense drug discovery and target validation. AAV73492 to AAV741200, and
 CC AAV72701 to AAV72706, represent sequences used in the exemplification of
 CC the present invention.

XX Sequence 18 BP; 5 A; 4 C; 8 G; 1 T; 0 U; 0 Other;

XX Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e-02; Mismatches 2; Indels 0; Gaps 0;
 Matches 13; Conservative 0; OS Synthetic.
 XX Matches 13; Conservative 0; Indels 0; Gaps 0;
 XX QY 128 CATGCTGGCCGCT 142
 DB 16 CATGCTGGCCGCT 2
 XX RESULT 1140
 XX AAV73492
 ID AAV73492 standard; DNA; 18 BP.
 XX AC AAV73492;
 XX DT 23-FEB-1999 (first entry)
 XX DE Human myeloid antigen-CD33 analogue GENS60D06 PCR primer P7.

XX Myeloid antigen; CD33; detection; gene expression; analogue; GEN 560D06;
 KW PCR primer; ss.
 XX OS Synthetic.
 OS Homo sapiens.
 XX PN JP10286089-A.
 XX PD 27-OCT-1998.
 XX PR 15-APR-1997; 97JP-00096908.
 XX PR 15-APR-1997; 97JP-00096908.
 XX PR (SAKA) OTSUKA PHARM CO LTD.
 XX DR WPI; 1999-063481/06.
 PT New human rab7GDP-combined analogous protein gene - useful for detection
 PT of its expression in tissues.
 XX PS Example 2; Page 10; 35pp; Japanese.
 XX AAV73492 and AAV73493 are PCR primers used in the amplification of a
 CC novel human myeloid antigen-CD33 connecting protein analogue; GEN 560D06.
 CC The gene is useful for the detection of gene expression in various
 CC tissues
 XX SQ Sequence 18 BP; 1 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
 XX RESULT 1141
 XX AAX38029
 ID AAX38029 standard; DNA; 18 BP.
 XX AC AAX38029;
 DB 241 GCGCTCTTCCGCGCT 255
 AC 1 GCGCTCTTCCGCGCT 15
 XX DT 04-JUN-1999 (first entry)
 XX DE HLA-A untranslated region primer SEQ ID NO:105.
 XX Human; histocompatibility locus antigen; HLA; determination; allele;
 KW HLA-B typing; PCR; HLA class I; cis/trans linkage resolution; ss.
 XX OS Synthetic.
 OS Homo sapiens.
 XX PN WO990783-A1.
 XX PD 18-FEB-1999.
 XX PR 11-AUG-1998; 99WO-CA000768.
 XX PR 11-AUG-1997; 97US-00909290.
 XX PA (VISI-) VISIBLE GENETICS INC.
 PA (BLAS/) BLASCZYK R H.
 PI Blasczyk RH, Leushner J;
 XX DR WPI; 1999-167446/14.
 XX PT Determination of HLA class I group type of a subject - using group
 DE specific untranslated region primer pair.

XX Disclosure; Page 18; 195pp; English.
 PS
 XX
 CC The present invention describes a method using novel primers involving the PCR-based determination of histocompatibility locus antigen B (HLA-B) Class I group type. Determining the HLA-B Class I group type of a subject comprises: (i) combining a group-specific untranslated region primer pair with a target DNA sample from the subject under conditions such that primer-based amplification of the target DNA may occur; and (ii) determining whether a nucleic acid product is produced by the amplification; where the ability of the primer pair to produce a nucleic acid product is associated with a particular HLA group type. The method can be used for HLA-B typing. In the method, the initial group specific amplification allows a PCR based separation of haplotypes in 95% of patient samples. It permits the resolution of cistrans linkages of heterozygote sequencing results which cannot be achieved with other amplification protocols. AX37845 to AX3826 represent DNA sequence used in the exemplification of the present invention.

CC Sequence 18 BP; 2 A; 5 C; 10 G; 1 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 138 CCCTGCGGGTGGAG 152
 Db 1 CGCCTGGGGGGGG 15
 Db

RESULT 1142
 AX38246 ID AX38246 standard; DNA; 18 BP.
 AC AX38246;
 XX DT 04-JUN-1999 (first entry)
 DB Histocompatibility locus antigen PCR primer SEQ ID NO:402.
 XX Human; histocompatibility locus antigen; HLA; determination; allele; HLA-B typing; PCR; HLA class I; cis/trans linkage resolution; ss.
 KW OS Synthetic.
 OS Homo sapiens.
 PN WO907883-A1.
 XX PD 18-FEB-1999.
 XX PR 11-AUG-1998; 98WO-CA000768.
 XX DR 11-AUG-1997; 97US-00909290.
 XX PA (VISI-) VISIBLE GENETICS INC.
 XX PT (BLAS/) BLASZCYK R. H.
 PT Blaszczyk RH, Leushner J;
 XX DR WPI; 1999-167445/14.

XX The present invention describes a method using novel primers involving the PCR-based determination of histocompatibility locus antigen B (HLA-B) Class I group type. Determining the HLA-B Class I group type of a subject comprises: (i) combining a group-specific untranslated region primer pair with a target DNA sample from the subject under conditions such that primer-based amplification of the target DNA may occur; and (ii) determining whether a nucleic acid product is produced by the

CC amplification; where the ability of the primer pair to produce a nucleic acid product is associated with a particular HLA group type. The method can be used for HLA-B typing. In the method, the initial group specific amplification allows a PCR based separation of haplotypes in 95% of patient samples. It permits the resolution of cistrans linkages of heterozygote sequencing results which cannot be achieved with other amplification protocols. AX37845 to AX3826 represent DNA sequence used in the exemplification of the present invention.

CC Sequence 18 BP; 3 A; 6 C; 6 G; 3 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 22 TGACCGAGGGCTGG 36
 Db 2 TGACCGAGGACCTGG 16

RESULT 1143
 AX23056 ID AX23056 standard; DNA; 18 BP.
 XX AC AA23056;
 XX DT 18-JAN-2000 (first entry)
 DB Human integrin alpha 4 gene antisense oligonucleotide ISIS #24449.
 XX Human; integrin; antisense; oligonucleotide; inhibition; expression;
 KW very late antigen; CD49d; CD29; cell surface; leucocyte; adhesion;
 KW vascular endothelial cell; vascular endothelium; migration; inflammation;
 KW atherosclerosis; allergy; asthma; rheumatoid arthritis; tumor; Grove's disease;
 KW metastasis; circulatory system; autoimmune disease; Hashimoto's thyroiditis; encephalomyelitis; multiple sclerosis; ss.
 XX OS Synthetic.
 OS Homo sapiens.
 XX PN US5968826-A.
 XX PR 05-OCT-1998; 98US-00166203.
 XX PA (ISIS-) ISIS PHARM INC.
 XX PI Bennett CF, Cowser LM, Condon TP;
 XX DR WPI; 1999-530416/50.
 XX PT Antisense inhibition of integrin alpha4 expression useful for treating inflammatory diseases such as atherosclerosis, allergies, asthma and arthritis.
 XX PS Example 8, Col 25; 405pp; English.

XX The invention relates to the generation of antisense oligonucleotides targeted to the integrin alpha4 gene (human sequence AX23055) which are used for inhibiting expression of the integrin alpha4 mRNA or protein. The oligonucleotides A230556-230594 are used to inhibit human integrin alpha4 protein expression. Integrin alpha4 is a component of very late antigen (VLA)-4 (also called alpha4beta1 and CD49d/CD29). VLA-4 is expressed on the cell surfaces of leukocytes and vascular endothelial cells and mediates the adhesion of leukocytes to the vascular endothelium prior to migration into the surrounding tissues. This migration is an essential step in inflammation and hence VLA-4 (and consequently integrin alpha4) is a potential therapeutic target for treating inflammatory diseases and the damaging effects of excessive inflammation. These disorders include atherosclerosis, allergies, asthma, rheumatoid

CC arthritis and tumor cell metastasis. VLA-4 is involved in migration of
 CC the tumor cells through the extracellular matrix into the circulatory
 CC system. VLA-4 is also involved in a number of autoimmune diseases such
 CC as Grave's disease, Hashimoto's thyroiditis, encephalomyelitis (EAE),
 CC multiple sclerosis. VLA-4 may also be involved in promoting adhesion
 CC (i.e. retention) of hemopoietic stem cells in bone-marrow and in
 CC allograft rejection

XX Sequence 18 BP; 2 A; 5 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 98 CAGCTGAAACGGCA 112
 Db 2 CACGTCTGCCGGGA 15

RESULT 1144

ID AAA57864
 ID AAA57864 standard; DNA; 18 BP.

XX
 AC AAA57864;
 XX
 DT 11-OCT-2000 (first entry)

XX DE Mutant effector oligonucleotide, mut.3.

XX KW Ribozyme; catalytic RNA; analyte detection; effector molecule;
 KW nucleic acid substrate; in vitro selection; ribozyme ligation;
 KW conformation dependent activity; allosteric activation; mutant; ss.
 OS Synthetic.

XX FH Key location/Qualifiers

FT misc_binding 1..18
 FT /tag= a
 FT (AAA57859)"

FT WO20024931-A2.
 XX PD 04-MAY-2000.
 XX PF 22-OCT-1999; 99WO-IL000557.
 XX PR 23-OCT-1998; 98IL-00126731.
 XX PA (INTE-) INTELLIGENE LTD.
 XX PI Nathan A, Ellington A;
 XX DR WPI; 2000-350763/30.

XX PT Detecting an analyte in a sample comprises providing nucleic acid
 PT sequence which is catalytically active in presence of analyte, contacting
 PT catalytic nucleic acid with substrate and amplifying catalytic product.

XX Example 3; Page 17; 36pp; English.

The invention relates to a method of detecting an analyte in a sample. The method comprises providing a nucleic acid sequence which is initially catalytically inactive, but which becomes catalytically active in the presence of an analyte (the effector); providing a nucleic acid substrate for the catalytic activity of the nucleic acid sequence; and contacting the nucleic acid sequence and the substrate with the sample under conditions allowing catalytic activity of nucleic acid sequences. The catalytic nucleic acid sequence will be able to convert the nucleic acid substrate into a nucleic acid product only if the analyte of interest is present. The nucleic acid catalytic product is then amplified, and a significant increase in the amount of product indicates the presence of the analyte in the sample. The method is useful for the qualitative or quantitative determination of an analyte in a sample in diagnostic assays. The invention describes the in vitro selection of a ribozyme

CC presence of an oligonucleotide effector (AAA57854). The L1 ribozyme ligase was selected from a pool of RNA molecules comprising a central randomised region 90 nucleotides in length flanked on both sides by constant sequence regions (the N90 RNA pool; AAA57851). In the presence of the effector, selection was performed using one of the tagged substrate molecules AAA57855-A57857. RNAs with ligase activity (i.e., those which have become ligated to the substrate molecule) were reverse transcribed using the effector oligo and then PCR amplified using the effector and a DNA primer identical in sequence to the substrate used for the selection. A ribozyme ligase, L1, was selected via this procedure. L1 can only adopt its active conformation (AAA57859) in the presence of the effector oligo (analyte). In the absence of the effector, L1 adopts an inactive conformation (AAA57860). Sequences AAA57863-A57867 represent a series of mutant effector oligonucleotide used with wild-type L1 ribozyme (AAA57859) in an exemplification of the invention

XX Sequence 18 BP; 5 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 86 AGTGGACATCACCAC 100
 Db 4 ACTGGACATCAGCAC 18

RESULT 1145

ID AA247726/C
 ID AA247726 standard; DNA; 18 BP.

XX AC AA247726;
 XX DT 02-MAR-2000 (first entry)

XX DE Human CD40 antisense oligonucleotide SEQ ID NO:42.

XX KW Human; CD40; antisense oligonucleotide; phosphorothioate; modulation; expression; immune disease; inflammatory disease; immunomodulatory; anti-inflammatory; anti-arthritis; anti-asthmatic; antiproliferative; anticancer; immuno-suppressive; anti-psoriatic; allograft rejection; hyperproliferative disease; autoimmune disease; rheumatoid arthritis; inflammatory bowel disease; asthma; psoriasis; cancer; tumour; ss.
 XX OS Synthetic.
 XX OS Homo sapiens.
 XX PN WO9957320-A1.
 XX PD 11-NOV-1999.
 XX PR 22-APR-1999; 99WO-US008765.
 XX PR 01-MAY-1998; 98US-00071433.
 XX PA (ISIS-) ISIS PHARM INC.

XX PI Bennett CF, Cowsey LM;
 XX DR WPI; 2000-062118/05.

PT Antisense molecules directed against nucleic acid encoding human CD40 for treating e.g. immune, inflammatory or hyperproliferative diseases.

XX PS Example 9; Page 44; 102pp; English.

XX CC AA247725 to AA247768 represent phosphorothioate antisense oligonucleotides targeted to human CD40, which can be used to inhibit the expression of human CD40. CD40 is involved in lymphocyte activation, tumour growth and/or angiogenesis. Inhibition of CD40 is used to treat or

AC AAZ98708;
 XX
 DT 20-JUN-2000 (first entry)
 XX
 DE Collagen promoter inhibitory oligonucleotide Oligo Col 164 APS.
 XX
 KW atherosclerosis; restenosis; liver cirrhosis; lung fibrosis; burn injury;
 KW peritoneal fibrosis; Skin fibrosis; scleroderma; hypertrophic scar; ss.
 XX
 OS Rattus sp.
 XX
 PN WO200008213-A1.
 PT
 XX
 PD 17-FEB-2000.
 XX
 PF 06-AUG-1999; 99MO-US017824.
 XX
 PR 07-AUG-1998; 98US-00130888.
 XX
 PA (GUNT/) GUNTAKA R V.
 PI Guntaka RV, Weber KT, Kovacs A, Kandala J;
 XX
 WPI; 2000-205739/18.
 XX
 Inhibitors of collagen gene useful for treating fibrosis associated with
 PT atherosclerosis, restenosis, liver cirrhosis, lung and skin fibrosis,
 PT comprises oligomers capable of inhibiting collagen gene.
 XX
 PS Claim 19; Fig 8; 77pp; English.
 XX
 This sequence represents an oligomer which is capable of inhibiting the
 CC expression of the collagen gene. The oligomer is capable of binding to
 CC the promoter region of the collagen gene. Collagen is a family of fibrous
 CC proteins, and is the major element of skin, bone, tendon, cartilage,
 CC blood vessels and teeth. The oligomers are useful for inhibiting
 CC expression of the collagen gene comprising inserting the oligomers into
 CC a cell and causing an intracellular reaction to inhibit the gene
 CC for treating pathological fibrosis associated with myocardial fibrosis in
 CC hypertension, heart disease, atherosclerosis, restenosis, liver cirrhosis,
 CC lung fibrosis, peritoneal fibrosis and skin fibrosis found in
 CC scleroderma, hypertrophic scars and burn injury
 XX
 Sequence 18 BP; 7 A; 0 C; 11 G; 0 T; 0 U; 0 Other;
 XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 ID AAZ91392;
 AC AAZ91392;
 XX
 DT 22-MAY-2000 (first entry)
 XX
 DE Human PTEN phosphorothioate antisense oligonucleotide #29558.
 XX
 KW Human; PTEN; MMACL; TEP1; phosphorothioate; antisense oligonucleotide;
 KW inhibition; protein Phosphatase; tumour; diagnosis; inflammation;
 KW anticancer; anti-inflammatory; anti-infective; infection; ss.
 XX
 OS Homo sapiens.
 XX
 FH Homo sapiens.
 XX
 AC AAZ57673;
 XX
 DT 05-APR-2000 (first entry)
 XX
 DE Human G-Galp-12 antisense inhibitor ISIS# 20661.
 XX
 KW G-alpha-12 inhibitor; antisense compound; cell differentiation; cancer;
 KW cell growth; metastatic growth; ss; ISIS# 20661.
 XX
 OS Homo sapiens.
 XX
 PN US5998206-A.
 XX

PD 07-DEC-1999.
 XX
 PP 23-FEB-1999; 99US-00256496.
 XX
 PR 23-FEB-1999; 99US-00256496.
 XX
 PA (ISIS-) ISIS PHARM INC.
 PI Cowser LM;
 XX
 DR WPI; 2000-095920/08.
 PT
 XX
 PS Antisense inhibition of human G-alpha-12 expression.
 XX
 Example 15; Col. 38; 362pp; English.
 XX
 CC This is a human G-alpha-12 antisense nucleotide sequence. G-alpha-12 is a
 CC member of the G12/13 subfamily of G-proteins. The primary function of G-
 CC alpha-12 is in cell differentiation and growth. The invention relates to
 CC antisense compounds which are 8-30 nucleotides long (see AAZ57668-
 CC 257746). The antisense molecules are targeted to the human G-1alpha-12
 CC nucleic acid molecule, and inhibit the expression of G-alpha-12. The
 CC molecules preferably have a modified internucleotide linkage, and at
 least one modified sugar moiety. The compounds target different regions
 CC of the human G-alpha-12 RNA. The expression of human G-alpha 12 is
 CC inhibited by contacting human cells or tissues in vitro with the
 CC antisense molecules. The oligonucleotides are used in modulating the
 CC function of nucleic acid molecules encoding G-alpha-12, ultimately
 CC modulating the amount of G-alpha-12 produced. The antisense compounds can
 CC be utilized for diagnostics, therapeutics, prophylaxis and as research
 CC agents and kits. They may be useful in the treatment of cancer, and
 CC metastatic growth.

XX
 SO Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
 XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 ID AAZ91392;
 AC AAZ91392;
 XX
 DT 22-MAY-2000 (first entry)
 XX
 DE Human PTEN phosphorothioate antisense oligonucleotide #29558.
 XX
 KW Human; PTEN; MMACL; TEP1; phosphorothioate; antisense oligonucleotide;
 KW inhibition; protein Phosphatase; tumour; diagnosis; inflammation;
 KW anticancer; anti-inflammatory; anti-infective; infection; ss.
 XX
 OS Homo sapiens.
 XX
 FH Homo sapiens.
 XX
 AC AAZ57673;
 XX
 DT 05-APR-2000 (first entry)
 XX
 DE Human G-Galp-12 antisense inhibitor ISIS# 20661.
 XX
 KW G-alpha-12 inhibitor; antisense compound; cell differentiation; cancer;
 KW cell growth; metastatic growth; ss; ISIS# 20661.
 XX
 OS Homo sapiens.
 XX
 PN US5998206-A.
 XX
 PR 01-FEB-2000.
 XX
 DR 21-JUL-1999; 99US-00359381.
 XX
 PR 21-JUL-1999; 99US-00359381.

PA (ISIS-) ISIS PHARM INC.
 XX
 PI Monia BP, Cowser LM;
 XX DR WPI; 2000-181363/16.
 XX
 PT New antisense compounds useful for treating, preventing or diagnosing
 CC e.g. tumors or inflammation, are targeted to the human dual specificity
 protein phosphatase (PTEN) sequence.
 XX
 PS Example 15; Col 41; 32pp; English.
 XX
 CC The present invention describes phosphorothioate antisense
 CC oligonucleotides that are targeted to the 3'-untranslated region (UTR) of
 CC the sequence encoding a human dual specificity protein phosphatase
 CC designated PTEN (also known as MMAC1 and TEP1), and hybridise
 CC specifically to the human PTEN nucleotide sequence given in AAZ21361. The
 CC antisense oligonucleotides have anticancer, anti-inflammatory and anti-
 CC infective activities. The phosphorothioate antisense oligonucleotides can
 CC be used for diagnosis, treatment and prevention of PTEN-related diseases,
 CC e.g. infections, inflammation and tumours. The present sequence
 CC represents a phosphorothioate antisense oligonucleotide for human PTEN,
 CC from the present invention.
 XX
 SQ Sequence 18 BP; 6 A; 3 C; 2 G; 7 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pid. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 OY 406 TCTACCTGATCAGA 420
 Db 18 TCTATGGATCAGA 4
 XX
 RESULT 1151
 AAZ293459
 ID AAZ293459 standard; DNA; 18 BP.
 XX
 AC AAZ293459;
 XX
 DT 24-JUL-2000 (first entry)
 XX
 DE TRADD antisense oligonucleotide.
 XX
 FT TRADD; TNF: tumour necrosis factor; NF-kappa-B; apoptosis;
 KW programmed cell death; antisense; inhibition; treatment; therapy;
 KW septic shock; inflammation; cancer; antiinflammatory; human; ss.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT misc_binding complement(1..18)
 FT /*tag= a
 FT /note= "Complementary to bases 389-372 of the human TRADD
 sequence described in GENSEQ record AAZ293431"
 PN WO200012527-A1.
 XX
 PD 09-MAR-2000.
 XX
 PF 25-AUG-1999; 99WO-US019614.
 XX
 PR 28-AUG-1998; 98US-00143212.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Monia BP, Cowser LM;
 XX
 DR WPI; 2000-237846/20.
 XX
 PT New antisense compounds that limit the expression of human TRADD protein,
 PT useful in the treatment and diagnosis of cancer, inflammation and septic
 PT shock.
 XX
 PS Claim 3; Page 51; 85pp; English.
 XX
 CC The intracellular protein TRADD has been identified as a critical link
 CC between tumour necrosis factor (TNF) receptor binding and downstream
 CC activation of NF-kappa-B. Overexpression of native TRADD activates NF-
 CC kappa-B in the absence of TNF and dominant negative mutants of TRADD
 CC block TNF-induced NF-kappa-B activation. A second effect of TNF in many
 CC cell types is the induction of apoptosis (programmed cell death). TRADD
 CC overexpression has been shown to mimic TNF induction of apoptosis as
 well. Data indicates that TRADD and other downstream effector proteins
 CC are the rate limiting step of TNF action and would therefore serve as the
 CC most efficient targets for inhibition of TNF-induced events. Antisense
 CC oligonucleotides capable of inhibiting TRADD function may therefore be
 CC useful in a number of therapeutic, diagnostic and research applications.
 CC Inhibiting expression of TRADD by contacting human cells or tissues with
 CC the antisense compound may be used to treat a disease or condition
 CC associated with TRADD expression, for example, septic shock, varying
 CC inflammation, or cancer. TRADD antisense oligonucleotides of varying
 CC inhibitory capabilities are listed in GENSEQ records AAZ293438-29517.
 CC The antisense oligonucleotides exhibit enhanced inhibitory capabilities
 CC when they have 2'-MOE wings and a deoxy gap.
 XX
 SQ Sequence 18 BP; 3 A; 5 C; 8 G; 2 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pid. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 OY 313 GGAGCCGTGCTG 327
 Db 4 GGCACCGAGTGCTG 18
 XX
 RESULT 1152
 AAZ293461/C
 ID AAZ293461 standard; DNA; 18 BP.
 XX
 AC AAZ293461;
 XX
 DT 24-JUL-2000 (first entry)
 XX
 DE TRADD antisense oligonucleotide.
 XX
 FT TRADD; TNF: tumour necrosis factor; NF-kappa-B; apoptosis;
 KW programmed cell death; antisense; inhibition; treatment; therapy;
 KW septic shock; inflammation; cancer; antiinflammatory; human; ss.
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT misc_binding complement(1..18)
 FT /*tag= a
 FT /note= "Complementary to bases 401-384 of the human TRADD
 sequence described in GENSEQ record AAZ293431"
 PN WO200012527-A1.
 XX
 PD 09-MAR-2000.
 XX
 PF 25-AUG-1999; 99WO-US019614.
 XX
 PR 28-AUG-1998; 98US-00143212.
 XX
 PA (ISIS-) ISIS PHARM INC.
 XX
 PI Monia BP, Cowser LM;
 XX
 DR WPI; 2000-237846/20.
 XX
 PT New antisense compounds that limit the expression of human TRADD protein,
 PT useful in the treatment and diagnosis of cancer, inflammation and septic

PT shock.
 XX
 PS Claim 3; Page 52; 85pp; English.
 XX
 CC The intracellular protein TRADD has been identified as a critical link
 CC between tumour necrosis factor (TNF) receptor binding and downstream
 CC activation of NF-kappa-B. Overexpression of native TRADD activates NF-
 CC kappa-B in the absence of TNF and dominant negative mutants of TRADD
 CC block TNF-induced NF-kappa-B activation. A second effect of TNF in many
 CC cell types is the induction of apoptosis (programmed cell death). TRADD
 CC overexpression has been shown to mimic TNF induction of apoptosis as
 well. Data indicates that TRADD and other downstream effector proteins as
 CC are the rate limiting step of TNF action and would therefore serve as the
 most efficient targets for inhibition of TNF-induced events. Antisense
 CC oligonucleotides capable of inhibiting TRADD function may therefore be
 CC useful in a number of therapeutic, diagnostic and research applications.
 CC Inhibiting expression of TRADD by contacting human cells or tissues with
 CC the antisense compound may be used to treat a disease or condition
 CC associated with TRADD expression, for example, septic shock,
 CC inflammation, or cancer. TRADD anti-sense oligonucleotides of varying
 CC inhibitor capabilities are listed in GENBANK Records AAC39438-Z9357.
 CC The antisense oligonucleotides exhibit enhanced inhibitory capabilities
 XX when they have 2'-MOE wings.

SQ Sequence 18 BP; 4 A; 7 C; 4 G; 3 T; 0 U; 0 other;
 XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 262 CGTGACCTGGAGC 276
 ID AAC70705 standard; DNA; 18 BP.
 AC AACT0705;
 XX DT 09-FEB-2001 (first entry)
 XX DE Single nucleotide polymorphism PCR primer #357.
 XX KW Single nucleotide polymorphism; SNP; human; genetic disease;
 KW disease susceptibility; cardiovascular system; endocrine system;
 KW neurological system; forensic testing; paternity testing; PCR primer; ss.
 OS Homo sapiens.
 XX PN WO200058519-A2.
 XX PD 05-OCT-2000.
 XX PR 30-MAR-2000; 2000WO-US008440.
 XX PR 31-MAR-1999; 99US-0127248P.
 XX (WHED) WHITEHEAD INST BIOMEDICAL RES.
 PA (AFFY-) AFFYMATRIX INC.
 XX Altshuler D, Cargill M, Daley GQ, Ireland JS, Lander ES;
 PI Lipshultz RJ, Patil N, Sklar P;
 XX WPI; 2000-611722/58.
 XX
 PT Antisense compounds targeted to the coding region of human
 PT phosphatidylinositol 3-kinase (p13K) p85 and inhibiting p13K p85
 PT expression, useful for treating disorders associated with p13K p85
 PT expression.
 XX
 PS Claim 11; Col 39; 32pp; English.
 XX
 CC The phosphatidylinositol 3-kinases (p13Ks) represent a ubiquitous family
 CC of heterodimeric lipid kinases that are found in association with the
 CC cytosolic domain of hormone and growth factor receptors and oncogene
 CC products. p13Ks act as downstream effectors of these receptors, are
 CC recruited upon receptor stimulation and mediate the activation of second
 CC messenger signaling pathways. The p13 kinase enzyme consists of a 110KD
 CC catalytic subunit (p101) associated with an 85KD regulatory subunit (p85)
 CC and it is through the SH2 domains of the p85 subunit that the enzyme
 CC associates with the membrane bound receptors. p13Ks have been implicated
 CC in many cellular activities including growth factor mediated cell
 CC transformation, mitogenesis, protein trafficking, cell survival and insulin-
 CC proliferation, DNA synthesis, apoptosis, neurite outgrowth and insulin-

XX
 CC The present invention is concerned with a number of human single
 CC nucleotide polymorphisms (SNPs) which the inventors identified in human
 CC genes. These SNPs can be used in disease diagnosis and prediction of an
 CC individual's susceptibility to disease, in forensic and paternity testing
 CC and in genetic mapping. In particular, the SNPs of the invention can be
 CC used to diagnose susceptibility to diseases of the cardiovascular,
 CC endocrine and neurological systems, such as coronary artery disease,
 CC schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's
 CC diseases.

SQ Sequence 18 BP; 4 A; 7 C; 4 G; 3 T; 0 U; 0 other;
 XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 236 GGAGGCTCTTCC 250
 ID AAC52014 standard; cDNA; 18 BP.
 AC AAC52014;
 XX DT 19-DEC-2000 (first entry)
 XX DE Antisense oligonucleotide directed against PI3K p85 subunit.
 XX KW Phosphatidylinositol 3-kinase; PI3K; p85; p110; heterodimer; hormone;
 KW growth factor; receptor; antisense; inhibition; expression; diagnosis;
 KW modulation; growth factor mediated cell transformation; mitogenesis;
 KW protein trafficking; cell survival; cell proliferation; DNA Synthesis;
 KW apoptosis; neurite outgrowth; insulin-stimulated glucose transport; ss.
 OS Synthetic.
 XX PN US6100090-A.
 XX PD 08-AUG-2000.
 XX PR 25-JUN-1999; 99US-00344521.
 XX PA (ISIS-) ISIS PHARM INC.
 XX PI Monia BP, Cowser LM;
 XX DR WPI; 2000-542426/49.
 XX
 PT Antisense compounds targeted to the coding region of human
 PT phosphatidylinositol 3-kinase (p13K) p85 and inhibiting p13K p85
 PT expression, useful for treating disorders associated with p13K p85
 PT expression.
 XX
 PS Claim 11; Col 39; 32pp; English.
 XX
 CC The phosphatidylinositol 3-kinases (p13Ks) represent a ubiquitous family
 CC of heterodimeric lipid kinases that are found in association with the
 CC cytosolic domain of hormone and growth factor receptors and oncogene
 CC products. p13Ks act as downstream effectors of these receptors, are
 CC recruited upon receptor stimulation and mediate the activation of second
 CC messenger signaling pathways. The p13 kinase enzyme consists of a 110KD
 CC catalytic subunit (p101) associated with an 85KD regulatory subunit (p85)
 CC and it is through the SH2 domains of the p85 subunit that the enzyme
 CC associates with the membrane bound receptors. p13Ks have been implicated
 CC in many cellular activities including growth factor mediated cell
 CC transformation, mitogenesis, protein trafficking, cell survival and insulin-
 CC proliferation, DNA synthesis, apoptosis, neurite outgrowth and insulin-

CC stimulated glucose transport. Antisense compounds directed against PI3K p85 and which inhibit its expression are useful as diagnostics and research reagents, and as a component of kits, which can be used for detecting the level of PI3K p85 in a sample. The compounds may be administered to an animal or human suspected of having a disease or disorder which can be treated by modulating the expression of PI3K p85. The compounds may further be useful prophylactically, e.g., to prevent or delay infection, inflammation or tumor formation. The target site of PI3K p85 subunit (See GENSEQ record ARA5207)

XX Sequence 18 BP; 1 A; 6 C; 0 G; 11 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
Best Local Similarity 86.7%; Pred. No. 5.6e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 362 CTTCCTCATTTCT 375
Db 3 CTTCCTCATTTCT 17

RESULT 1155
AA63428C
ID AA63428 standard; DNA; 18 BP.
XX
AC AAA63428;
XX
DT 06-MAR-2001 (first entry)
XX
DE C-1027 gene cluster reverse PCR primer for ORF 30.
XX
KW Endiyne C-1027 biosynthesis gene cluster; apoprotein; chromophore; PCR primer; ss.
OS Streptomyces globisporus.
XX
WO20040596-A1.
PA
XX
PD 13-JUL-2000.
XX
PT 06-JAN-2000; 2000WO-US000446.
PR 06-JAN-1999; 99US-0115434P.
PR 05-JAN-2000; 2000US-00477962.
PA (REGC) UNIV CALIFORNIA.
XX
PI Shen B, Liu W, Christenson SD, Standage S;
XX
WPI; 2000-465947/40.

PT Isolated nucleic acid comprising a nucleic acid encoding any of C-1027 open reading frames (ORFs) -7 to 42, excluding ORF 9 (cagA), useful for the production of endiyne C-1027 antitumor antibiotics.
XX
PS Disclosure; Page 18; 160pp; English.

XX
CC The present invention is concerned with the elucidation of the gene cluster from Streptomyces globisporus which regulates endiyne C-1027 synthesis. Endiyne C-1027 is an antibiotic, consisting of an apoprotein and a non-peptide chromophore, which causes damage to DNA. The primers AAA6353_A63451 were used to isolate the open reading frames which comprise the gene cluster. The sequences within the gene cluster can be used to produce the protein and to identify antagonists, both of which can be used in the treatment of cancer
XX
Sequence 18 BP; 3 A; 4 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
Best Local Similarity 86.7%; Pred. No. 5.6e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 260 CACGGTGCACCTGGA 274
Db 18 CACGGTGCACCTGCA 4

RESULT 1156
AA6353/C
ID AA6353 standard; DNA; 18 BP.
XX
AC AAA6335;
XX
DT 12-FEB-2001 (first entry)

XX
DE B. cereus zwittermicin A coding sequence sequencing primer #19.
XX
KW Zwittermicin A; aminopolyl antibiotic; crop protection; phytopathogen; biocontrol agent; infectious disease; PCR primer; ss.
XX
OS Bacillus cereus.
XX
PN WO20058351-A2.
XX
PD 05-OCT-2000.
XX
PT 22-MAR-2000; 2000WO-US007570.
PR 23-MAR-1999; 99US-0125769P.
PA (WISC) WISCONSIN ALUMNI RES FOUND.
XX
PI Handelman J, Milner JL, Stohl EA, Emmert EA;
XX
DR 2000-64722/62.
WPI; 2000-64722/62.

PT Novel Bacillus cereus nucleic acid molecule useful for synthesis of zwittermicin A for protecting crops against phytopathogens.
XX
RS Example 1; Page 22; 80pp; English.

XX
CC The present invention describes the coding sequence for the enzymes from Bacillus cereus which form the zwittermicin A aminopolyl antibiotic.
CC These enzymes are known as Orf1, Orf2, Orf3 and ZmaR. The antibiotic is useful in plants as a biocontrol agent as it help protect them from phytopathogens, which destroy crops. In addition, the coding sequence and proteins are useful for the treatment of human infectious diseases. The present sequence is a primer used to sequence the zwittermicin A genes
XX
Sequence 18 BP; 8 A; 2 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
Best Local Similarity 86.7%; Pred. No. 5.6e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 193 TCCACTGTCTGATGA 207
Db 17 TCCACTGTCTGATGA 3

RESULT 1157
AA62691/C
ID AA62691 standard; DNA; 18 BP.
XX
AC AA62691;
XX
DT 08-MAY-2001 (first entry)
XX
DE Primer kcs 3.
XX
Long chain fatty acid condensing enzyme; KCS2; co suppression; antisense; screening;
KW beta-ketoacyl-coenzyme A synthase 2; co suppression; antisense; screening;
KW ss.
XX
OS Arabidopsis sp.

CC	immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells. Note: the present sequence may have a phosphorothioate backbone
CC	present sequence may have a phosphorothioate backbone
XX	Sequence 18 BP; 0 A; 6 C; 9 G; 3 T; 0 U; 0 Other;
SQ	OS Synthetic.
QY	2-8%; Score 11.8; DB 1; Length 18; Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0;
Db	15 ACCGCGACGAGGGC 393 1
RESULT 1160	
ID	AAH75367/C
ID	AAH75367 standard; DNA; 18 BP.
AC	AAH75367;
XX	02-OCT-2001 (first entry)
XX	DE Atrophaneura alcinous protein 3' RACE primer 3.
XX	KM Lepidopteran; insect; agricultural chemical development; PCR primer; ss.
XX	PP Atrophaneura alcinous.
OS	OS Synthetic.
XX	JP2001128689-A.
PN	15-MAY-2001.
PD	XX
XX	PP 09-APR-2000; 2000JP-00241272.
PR	XX
PR	24-AUG-1999; 99JP-00236700.
PA	XX
PA	(SUNR) SUNTORY LTD.
XX	PI Monia BP, Cowser LM, McKay R;
DR	XX
WPI:	DR WPI; 2001-588975/66.
XX	XX
PT	PT New antisense oligonucleotides targeting nucleic acids encoding PTEN, useful for treating diabetes, increasing insulin sensitivity, or decreasing insulin resistance, blood triglyceride or cholesterol levels in a diabetic animal.
XX	PT Example 15; Col 41; 38pp; English.
PS	CC The invention relates to a compound targeted to a nucleic acid encoding PTEN (a dual specificity protein phosphatase), where the compound is an antisense oligonucleotide. The antisense oligonucleotides are useful in modulating the function of nucleic acids encoding PTEN, ultimately modulating the amount of PTEN produced. The antisense compounds can be used as diagnostics, therapeutics, prophylactics (e.g. to prevent or delay infection, inflammation or tumour formation), and as research agents and kits. The antisense compounds are also useful in treating diabetes, decreasing insulin resistance, increasing insulin sensitivity and decreasing blood triglyceride or cholesterol levels in a diabetic animal. The present sequence is an antisense oligonucleotide targetting the DNA encoding PTEN (also known as MMAC1/rSP1).
CC	Sequence 18 BP; 4 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
CC	Query Match 2-8%; Score 11.8; DB 1; Length 18; Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0;
CC	Matches 13; Conservative 0; Mismatches 2;
OY	35 GGACGAAGATGGCA 49 4
Db	18 GGTGCGAAGTTGGCA 4
RESULT 1161	
ID	AAS14018/C
ID	AAS14018 standard; DNA; 18 BP.
AC	AAS14018;
XX	18-DEC-2001 (first entry)
DE	Human PTEN antisense oligonucleotide ISIS 29558.
XX	Human; PTEN; MMAC1; TEP1; protein phosphatase; antisense; ss; antiinflammatory; cytostatic; antidiabetic; antihaemiac; infection; inflammation; tumour; diabetes; insulin resistance; insulin sensitivity; triglyceride control; cholesterol control; ISIS 29558.
KW	OS Homo sapiens.
XX	OS Synthetic.
XX	Key_Location/Qualifiers
FT	modified_base 1.18
FT	/ttgg= a
FT	/note= "Phosphorothioate backbone"
FT	modified_base 1.18
FT	/ttgg= b
FT	/note= "Optionally 2'-methoxyethyl residue (2'-MOE). When 1-4 are 2'-MOE all cytosines in this region are 5-methylcytosines"
FT	modified_base 1.18
FT	/ttgg= c
FT	/note= "optionally 2'-methoxyethyl residue (2'-MOE). When 15-18 are 2'-MOE all cytosines in this region are 5-methylcytosine"
US6284538-B1.	US6284538-B1.
PN	US6284538-B1.
XX	PD 04-SEP-2001.
XX	PP 24-MAY-2000; 2000US-00577902.
XX	PR 21-JUL-1999; 99US-0035381.
PR	14-DEC-1999; 99WO-US029594.
PA	XX
PA	(ISIS-) ISIS PHARM INC.
XX	PI Monia BP, Cowser LM, McKay R;
XX	DR WPI; 2001-588975/66.
XX	XX
PT	PT New antisense oligonucleotides targeting nucleic acids encoding PTEN, useful for treating diabetes, increasing insulin sensitivity, or decreasing insulin resistance, blood triglyceride or cholesterol levels in a diabetic animal.
XX	PT Example 15; Col 41; 38pp; English.
PS	CC The invention relates to a compound targeted to a nucleic acid encoding PTEN (a dual specificity protein phosphatase), where the compound is an antisense oligonucleotide. The antisense oligonucleotides are useful in modulating the function of nucleic acids encoding PTEN, ultimately modulating the amount of PTEN produced. The antisense compounds can be used as diagnostics, therapeutics, prophylactics (e.g. to prevent or delay infection, inflammation or tumour formation), and as research agents and kits. The antisense compounds are also useful in treating diabetes, decreasing insulin resistance, increasing insulin sensitivity and decreasing blood triglyceride or cholesterol levels in a diabetic animal. The present sequence is an antisense oligonucleotide targetting the DNA encoding PTEN (also known as MMAC1/rSP1).
CC	Sequence 18 BP; 6 A; 3 C; 2 G; 7 T; 0 U; 0 Other;
CC	Query Match 2-8%; Score 11.8; DB 1; Length 18; Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0;
CC	Matches 13; Conservative 0; Mismatches 2;
OY	406 TCTAGTGTGAGA 420 4
Db	18 TCTAGTGTGAGA 4
RESULT 1162	
ID	AAH39010
ID	AAH39010 standard; DNA; 18 BP.
XX	AAH39010

AC XX DT 14-AUG-2001 (first entry)
 XX DB SNP specific lower PCR primer SEQ ID 1806.
 XX DE Single nucleotide polymorphism; SNP; single nucleotide primer extension;
 XX KW SNP; genotyping; agammaglobulinaemia; diabetes insipidus; cancer;
 KW leesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia;
 KW polycystic kidney disease; osteogenesis imperfecta; autoimmune disease;
 KW acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;
 KW inflammation; forensic investigation; paternity analysis; PCR primer; ss.
 XX OS Homo sapiens.
 XX PN WO200129262-A2.
 XX PD 26-APR-2001.
 XX PP 13-CCT-2000; 2000WO-US028436.
 XX PR 15-OCT-1999; 99US-0160096P.
 XX PA (ORCHI) ORCHID BIOSCIENCES INC.
 XX PI Picoult-Newburg L, Pohl M;
 XX DR WPI; 2001-29930/30.
 XX PT New genotyping oligonucleotide, useful for detecting the presence,
 PT absence or identity of single polynucleotide polymorphism in a nucleic
 acid sample.
 XX PS Claim 1; Page 59; 83pp; English.
 XX CC Sequences AAK37205 - AAK40944 represent PCR primers, single nucleotide
 CC primer extension (SNPE) primers, and the sequences of regions flanking
 CC sites of single nucleotide polymorphisms SNPs. The present invention
 CC includes kits for determining the presence or absence of a SNP, using the
 CC oligonucleotides of the invention. The PCR primers are used to amplify a
 CC SNP flanking sequence, the SNP primer is used as a genotyping primer.
 CC The oligonucleotides are useful for genotyping a nucleic acid sample by
 CC performing a single-nucleotide primer extension reaction. The
 CC oligonucleotides are useful for determining the presence, absence or
 CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to
 CC assess by association analysis the genotype of an individual or group of
 CC individuals, having a pathological phenotypic trait suspected of being
 CC caused by one or more SNPs. Phenotypic traits include diseases e.g.
 CC agammaglobulinaemia, diabetes insipidus, Leech-Nyhan syndrome, muscular
 CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease,
 CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic
 CC traits also include symptoms of or susceptibility to multifactorial
 CC diseases, of which a component is or may be genetic such as autoimmune
 CC diseases, including, rheumatoid arthritis, multiple sclerosis,
 CC inflammation, cancer, nervous system diseases and infection by pathogenic
 CC microorganism. The method is also useful in forensic investigations and
 CC pattern analysis. The present sequence represents a PCR primer specific
 XX Sequence 18 BP; 5 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
 XX SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 XX Best Local Similarity 86.7%; Fred. No. 5.6e-02; Indels 13; Conservative 0; Mismatches 2; Gaps 0;
 XX Matches 36 GAGGAGATGCCAC 50
 XX Db 17 GACGATGCTGGCAC 3

OS Synthetic.
 XX
 PN JP20000270896-A.
 XX
 PD 03-OCT-2000.
 XX
 PP 28-JAN-1999; 99JP-00019915.
 XX
 PR 28-JAN-1999; 99JP-00019915.
 XX
 PA (CANO) CANON KK.
 XX
 DR WPI: 2001-027424/04.

XX A preparation of a probe-combined substrate, a probe array, detection of a target substance, specification of the base sequence of a single-stranded nucleic acid in a sample, and determination of a target substance in a sample.

XX Example 3; Page 15; 20pp; Japanese.

SQ This invention relates to a probe-combined substrate, a probe array, and a method for the detection of a target substance in a sample. The probe array can be used for detecting a target substance with high reliability. Sequences AKG9241 - AKG9305 represent probes used in an array in an example illustrating the invention.

XX Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 297 AAGGACCTGAGCCC 311
 Db 18 ATGAACCTGAGCCC 4

RESULT 1165
 DE ASN10228 standard; DNA; 18 BP.
 XX
 AC ASN10228;
 XX
 DT 24-OCT-2001 (first entry)

XX Antisense oligonucleotide for human integrin alpha 4, ISIS 24449.

DE ASN10228 standard; DNA; 18 BP.
 XX
 KW Integrin alpha 4; antisense; very late antigen 4; VLA4;
 KW autoimmune disease; inflammatory disease; rheumatoid arthritis;
 KW multiple sclerosis; tumour metastasis; melanoma; asthma; psoriasis;
 KW allergy; Graves' disease; Hashimoto's thyroiditis; oligonucleotide;
 KW systemic lupus erythematosus; allograft rejection; ISIS 24449; ss.
 XX
 OS Homo sapiens.

XX Synthetic.

FH Key Modified_base Location/Qualifiers
 FT 1..18 /^{*}ttag= a
 FT /mod_base= OTHER
 FT
 FT modified_base /note= "Other= all cytosines are 5-methyl cytosine"
 FT 1..18 /^{*}ttag= b
 FT /mod_base= OTHER
 FT /note= "Other= Phosphorothioate backbone"
 FT 1..4 /^{*}tag= c
 FT /mod_base= OTHER
 FT /note= "Other= 2' methoxyethoxy residues"
 FT 5..14 /^{*}tag= d
 FT /mod_base= OTHER

FT modified_base /note= "Other= 2' deoxy residues"
 FT 15..18 /^{*}tag= e
 FT /mod_base= OTHER
 FT /note= "Other= 2' methoxyethoxy residues"
 XX US6258790-B1.
 PN 10-JUL-2001.
 XX
 PR 19-AUG-1999; 99US-00377309.
 XX
 PR 05-OCT-1998; 98US-00166203.
 XX
 PA (ISIS-) ISIS PHARM INC.
 PI Bennett CF, Condon TP, Cowser LM;
 XX
 DR WPI: 2001-450381/48.

XX Composition for treating inflammatory and autoimmune diseases, comprises antisense compound targeted to nucleic acid molecule encoding integrin alpha4 and inhibit expression of integrin alpha4.

XX Example 8; Col 25; 49pp; English.

CC The sequence is an antisense oligonucleotide targetting human integrin 4, a protein involved in autoimmune and inflammatory diseases. The invention relates to antisense inhibitors of integrin alpha 4 which target and inhibit expression of integrin alpha 4. The antisense molecules are useful for inhibiting the expression of integrin alpha4 in human cells or tissues, treating an animal having a disease or condition associated with expression of integrin alpha4, e.g., inflammatory disease or condition, autoimmune disease or condition including rheumatoid arthritis, multiple sclerosis and tumour metastases, melanoma, asthma, psoriasis, allergy, Graves' disease, Hashimoto's thyroiditis, systemic lupus erythematosus and allograft rejection, and diseases or conditions characterised by leukocyte migration into affected tissues, preferably central nervous system tissues. The antisense molecules are also useful for reducing the levels of VLA-4 and alpha4beta1 integrin in human cells or tissues, or reducing the adhesion of a first type e.g., endothelial cells, by lymphocytes, to cells of a second type e.g., leukocyte cells, by inhibiting integrin alpha4 expression and thus decreasing adhesion of cells

XX Sequence 18 BP; 2 A; 5 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 98 CAGCTTGACCGGA 112
 Db 2 CACGTCTGCCGGGA 16

RESULT 1166
 DE AAD19348/C
 ID AAD19348 standard; DNA; 18 BP.
 XX
 AC AAD19348;
 XX
 DT 18-DEC-2001 (first entry)

DE Mammalian PAC93.1 DNA sequencing reverse PCR primer, InterR.
 XX
 KW Interleukin-12; IL-12 p40; autoimmune disease; Th1/Th2 dysregulation; therapy; allelic variant; insulin dependent diabetes mellitus; IDDM; PCR primer; ss.
 KW
 OS Mammalia.
 XX
 PN WO200173035-A1.

XX
PD 04-OCT-2001.
XX
PT XX
XX 27-MAR-2001; 2001WO-AU000340.
PR XX
15-MAY-2000; 2000AU-00006466.
PA (HALL-) HALL INST MEDICAL RES WALTER & ELIZA.
XX
PT Morahan G;
XX
WPI; 2001-611629/70.

XX
PT Screening mammals for autoimmune diseases such as diabetes, comprises identifying polymorphisms in interleukin (IL)-12 p40.
XX Disclosure; Page 44; 115pp; English.

CC The patent discloses a method of screening mammals for autoimmune diseases by identifying polymorphisms in interleukin (IL)-12 p40 gene. The methods and kits of the invention are used for screening individuals, families and populations for disease conditions or predispositions for the development of a disease condition which is characterised, exacerbated or associated with Th1/Th2 dysregulation in a mammal. They are used to treat, prevent or diagnose autoimmune diseases such as IDDM (insulin dependant diabetes mellitus). The present DNA sequence is a PCR primer which is used for detecting polymorphism in mammalian IL-12 p40 exon 7.

CC Sequence 18 BP; 4 A; 4 C; 6 G; 4 T; 0 U; 0 Other;

CC Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0; Matches 13; Conservative 0; SQ

QY 260 CACGGTGCCCTGGA 274
Db 15 CTCAGTGCCCTGGA 1

Db 15 CTCAGTGCCCTGGA 1

RESULT 1167
AAD19276/C
ID AAD19276 standard; DNA; 18 BP.
XX
AC AAD19276;
XX
DT 18-DEC-2001 (first entry)

XX
DE PCR primer #2, to detect polymorphism in mammalian IL-12 p40 exon 7.
XX
KW Interleukin-12; IL-12 P40; autoimmune disease; Th1/Th2 dysregulation; KW therapy; TaqI+ allelic variant; insulin dependant diabetes mellitus; KW IBDM; PCR primer; SS.
OS Mammalia.
XX
PN WO200173035-A1.

XX
PD 25-APR-2002.
XX
PR 18-OCT-2000; 2000WO-JP007244.
XX
PA (CANON) CANON KK.
XX
PT Yamamoto N, Oiamoto T, Suzuki T,
XX DR WPI; 2002-372310/40.
XX
PT Screening an unknown base sequence at a defined site of a target single-stranded nucleic acid for use in DNA diagnosis and therapy, comprises a DNA chip, fluorescence yield and pattern-based method.
XX
PS Example 1; Page 13; 53pp; Japanese.

XX
CC The present invention relates to a method of analysing an unknown nucleic acid base sequence. The method comprises preparing a probe array, hybridising with the probe array, measuring the fluorescence yield in the reaction, obtaining a template pattern, producing a sample pattern, and comparing the sample pattern with the template pattern. The method is useful for specifying an unknown base sequence at a defined site of a target single-stranded nucleic acid, which is useful for analysing a nucleic acid base sequence. The method is applicable in DNA diagnosis and therapy, and is useful in medicine and biology. Measuring the fluorescence yield allows the detection of a one-base mismatch which can be considered to produce high detection accuracy. The hybrid pattern of the DNA probe is used so the difference in thermostability is less

PT Screening mammals for autoimmune diseases such as diabetes, comprises identifying polymorphisms in interleukin (IL)-12 p40.
PT XX
XX Example 6; Page 41; 115pp; English.

CC The patent discloses a method of screening mammals for autoimmune diseases by identifying polymorphisms in interleukin (IL)-12 p40 gene. The methods and kits of the invention are used for screening individuals, families and populations for disease conditions or predispositions for the development of a disease condition which is characterised, exacerbated or associated with Th1/Th2 dysregulation in a mammal. They are used to treat, prevent or diagnose autoimmune diseases such as IDDM (insulin dependant diabetes mellitus). The present DNA sequence is a PCR primer which is used for detecting polymorphism in mammalian IL-12 p40 exon 7.

CC Sequence 18 BP; 4 A; 4 C; 6 G; 4 T; 0 U; 0 Other;

CC Best Local Similarity 86.7%; Score 11.8; DB 1; Length 18; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0; Matches 13; Conservative 0; SQ

QY 260 CACGGTGCCCTGGA 274
Db 15 CTCAGTGCCCTGGA 1

Db 15 CTCAGTGCCCTGGA 1

RESULT 1168
ABK72456/C
ID ABK72456 standard; DNA; 18 BP.
XX
AC ABK72456;
XX
DT 13-AUG-2002 (first entry)

XX
DE Sample origonucleotide #18 for analysing nucleic acid base sequence.
XX
KW Nucleic acid base sequence analysis; DNA diagnosis; probe; ss.
XX
OS Synthetic.
XX
PN WO200233068-A1.

XX
PD 25-APR-2002.
XX
PR 18-OCT-2000; 2000WO-JP007244.
XX
PA (CANON) CANON KK.
XX
PT Yamamoto N, Oiamoto T, Suzuki T,
XX DR WPI; 2002-372310/40.
XX
PT Screening an unknown base sequence at a defined site of a target single-stranded nucleic acid for use in DNA diagnosis and therapy, comprises a DNA chip, fluorescence yield and pattern-based method.
XX
PS Example 1; Page 13; 53pp; Japanese.

XX
CC The present invention relates to a method of analysing an unknown nucleic acid base sequence. The method comprises preparing a probe array, hybridising with the probe array, measuring the fluorescence yield in the reaction, obtaining a template pattern, producing a sample pattern, and comparing the sample pattern with the template pattern. The method is useful for specifying an unknown base sequence at a defined site of a target single-stranded nucleic acid, which is useful for analysing a nucleic acid base sequence. The method is applicable in DNA diagnosis and therapy, and is useful in medicine and biology. Measuring the fluorescence yield allows the detection of a one-base mismatch which can be considered to produce high detection accuracy. The hybrid pattern of the DNA probe is used so the difference in thermostability is less

CC important, and the judgement on each spot can be reliably carried out.
 CC ABK7239; ABK72502 represent sample oligonucleotides used in the present
 CC invention.

XX Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 0; Indels 0; Gaps 0;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 297 AAGGACCTGAGCCC 311
 Db 18 ATGAACTTGAGCCCC 4

RESULT 1169

ID ABN99764/C

XX ID ABN99764 standard; DNA; 18 BP.

AC AC ABN99764;

XX DT 20-AUG-2002 (first entry)

XX DE DNA probe #18 for use in an oligonucleotide array.

XX KW Human; probe; array; oligonucleotide detection; ss.

XX OS Synthetic.

OS XX PN JP2002065274-A.

XX PN 05-MAR-2002.

XX PT 31-AUG-2000; 2000JP-00263395.

XX PR 31-AUG-2000; 2000JP-00263395.

XX PA (CANO) CANON KK.

XX DR Zhao Y, Chory J, Fankhauser C, Weigel D, Cashman J;

XX DR WPI; 2002-508330/54.

XX Enhancing a plant trait for studying biochemical pathways, comprises

PT transforming a plant with an expression vector having a sequence encoding

PT flavin-containing monooxygenase, expressing the monooxygenase and

PT measuring the trait.

XX PS Example 2; Page 21; 41PP; English.

XX This invention relates to a method for enhancing a trait in a plant. The

CC method comprises transforming a plant with an expression vector

CC comprising a nucleotide sequence encoding a flavin-containing

CC monooxygenase (FMO), expressing FMO, and measuring the trait. The method

CC of the invention is useful for enhancing a trait (such as increased

CC hypocotyl elongation, root thickness, root hair development, lateral root

CC initiation, apical dominance, epinastic leaf growth, flowering node

CC formation, fruit yield, auxin levels (preferably endogenous auxin

CC levels), and growth and yield, parthenocarpic fruit production or root

CC development alteration, where the increased root development is selected

CC from increased root length, root diameter, rate of elongation, root hair

CC development, and anthocyanin content) in a plant, preferably a tobacco

CC monocotyledonous or a dicotyledonous plant, more preferably A. thaliana

CC or a tobacco plant. The method of the invention is useful for studying

CC biochemical pathways such as the interaction between two growth

CC regulators or root development, and for oxidizing xenobiotics in plants.

CC The present sequence represents a sequencing primer used to sequence the

CC flaven-containing monooxygenase (FMO) YUCCA expression vector of the

CC invention.

XX Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;

SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;

Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 0; Indels 0; Gaps 0;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 297 AAGGACCTGAGCCC 311

Db 18 ATGAACTTGAGCCCC 4

RESULT 1171

ID AAD40969 standard; DNA; 18 BP.

XX ID ABR86809/C

XX ID ABR86809 standard; DNA; 18 BP.

XX AC ABR86809;

XX DT 24-SEP-2002 (first entry)

DB FMO gene expression vector sequencing primer (ECORI).

XX XUCCA; FMA; flavin-containing monooxygenase; ss; primer; sequencing;

XX plant; hypocotyl elongation; root thickness; root hair development;

XX lateral root initiation; apical dominance; spinatic leaf growth;

XX flowering node formation; fruit yield; auxin levels;

XX root development alteration.

XX OS Unidentified.

XX PN WO200240689-A2.

XX PD 23-MAY-2002.

XX PR 13-NOV-2001; 2001WO-US043462.

XX 16-NOV-2000; 2000US-00715834.

XX PA (SALK) SALK INST BIOLOGICAL STUDIES.

XX PI Zhao Y, Chory J, Fankhauser C, Weigel D, Cashman J;

XX DR WPI; 2002-508330/54.

XX Enhancing a plant trait for studying biochemical pathways, comprises

PT transforming a plant with an expression vector having a sequence encoding

PT flavin-containing monooxygenase, expressing the monooxygenase and

PT measuring the trait.

XX PS Example 2; Page 21; 41PP; English.

XX This invention relates to a method for enhancing a trait in a plant. The

CC method comprises transforming a plant with an expression vector

CC comprising a nucleotide sequence encoding a flavin-containing

CC monooxygenase (FMO), expressing FMO, and measuring the trait. The method

CC of the invention is useful for enhancing a trait (such as increased

CC hypocotyl elongation, root thickness, root hair development, lateral root

CC initiation, apical dominance, epinastic leaf growth, flowering node

CC formation, fruit yield, auxin levels (preferably endogenous auxin

CC levels), and growth and yield, parthenocarpic fruit production or root

CC development alteration, where the increased root development is selected

CC from increased root length, root diameter, rate of elongation, root hair

CC development, and anthocyanin content) in a plant, preferably a tobacco

CC monocotyledonous or a dicotyledonous plant, more preferably A. thaliana

CC or a tobacco plant. The method of the invention is useful for studying

CC biochemical pathways such as the interaction between two growth

CC regulators or root development, and for oxidizing xenobiotics in plants.

CC The present sequence represents a sequencing primer used to sequence the

CC flaven-containing monooxygenase (FMO) YUCCA expression vector of the

CC invention.

XX Sequence 18 BP; 1 A; 7 C; 4 G; 6 T; 0 U; 0 Other;

SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;

Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 0; Indels 0; Gaps 0;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 297 AAGGACCTGAGCCC 311

Db 18 ATGAACTTGAGCCCC 4

RESULT 1171

ID AAD40969 standard; DNA; 18 BP.

XX ID ABR86809/C

XX ID ABR86809 standard; DNA; 18 BP.

XX AC ABR86809;

XX DT 24-SEP-2002 (first entry)

XX

KW prophylaxis; hyperproliferative condition; infection; inflammation;
 KW therapy; phosphorothioate; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.

XX
 FH
 FT modified_base Location/qualifiers
 FT 1..18
 FT /*tag= a
 FT /mod_base= OTHER
 PT /note= "Phosphorothioate backbone"
 FT 1..4
 FT /*tag= b
 FT /mod_base= COTHER
 PT 3 /*tag= d
 FT /mod_base= MSC
 FT modified_base 15..18
 FT /*tag= e
 FT /mod_base= MSC
 FT /note= "2'-methoxyethyl nucleotides"
 FT modified_base 15..16
 FT /*tag= f
 FT /mod_base= OTHER
 PN WO200240637-A2.
 XX PD 23-MAY-2002.
 XX PR 19-NOV-2001; 2001WO-US045006.
 XX PR 20-NOV-2000; 2000US-00715983.
 PA (ISIS-) ISIS PHARM INC.
 XX PI Monia BP, Cowser LM, Murray SF, Butler MM, Dean NM;
 DR DR WPI; 2002-519374/55.
 XX PS Antisense compounds targeted against polynucleotides encoding PI3K p85 useful for treating e.g. cancer, Type 2 diabetes, obesity.
 XX PT
 XX PS Claim 3; Page 79; 121PP; English.
 XX The invention relates to antisense compounds targeted to a nucleic acid molecule encoding PI3K p85 to inhibits its expression. Antisense compounds of the invention are used for treating obesity, Type 2 diabetes and hyperproliferative condition e.g. cancer. They may also be useful prophylactically, e.g. to prevent or delay infection, inflammation or tumour formation. Antisense compounds either alone or in combination with other antisense compounds or therapeutics can be used as tools in differential and/or combinatorial analyses to elucidate expression patterns of a portion or the entire complement of genes expressed within cells and tissues. They are commonly used as research reagents and diagnostics. The present sequence is an antisense oligonucleotide targeted to human PI3K p85 DNA.

XX Sequence 18 BP; 1 A; 6 C; 0 G; 11 T; 0 U; 0 Other;

XX Query Match 2..8%; Score 11..8; DB 1; Length 18;
 CC Best Local Similarity 86..7%; Pred. No. 5..6e+02;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC QY 297 AAGGACTGAGCCCC 311
 CC Db 18 ATGAACTGAGCCCC 4

XX RESULT 1173
 ID ABS78179/C
 ID ABS78179 standard; DNA; 18 BP.
 XX AC ABS78179;
 XX DT 13-DEC-2002 (first entry)

XX DE Angiogenesis inhibitory oligonucleotide #663.
 XX KW Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;
 KW tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;
 KW diabetic retinopathy; retinopathy of prematurity; macular degeneration;
 KW corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;
 KW ruberoris; Osler-Weber-Syndrome; myocardial angiogenesis;
 KW plaque neovascularization; telangiectasia; haemophilic joint;
 KW angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
 KW scleroderma; hypertrophic scar.
 XX OS Synthetic.

RESULT 1172
 QY 362 CTTCCTCACTTCC 376
 Db 3 CTTCCTCACTTCC 17
 ID ABL54918/C
 ID ABL54918 standard; DNA; 18 BP.
 XX OS

XX
PN WO200253141-A2.
XX
PD 11-JUL-2002.

XX
PF 14-DEC-2001; 2001WO-US048458.
XX
PA (COLE-) COLEY PHARM GROUP INC.
XX
PI Bratzler RL;
XX
DR WPT; 2002-566690/60.

XX
PT Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.
XX
PS Claim 2; Page 31; 276pp; English.

XX
PT Inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precanous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrorenal fibroplasia, rubosis, Osler-Wbber Syndrome, myocardial angiogenesis, plaque neovascularization, telangiectasia, haemophilic joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, sclerodema and hypertrophic scars. The present sequence is an antiangiogenic nucleic acid of the invention.

XX
SQ Sequence 18 BP; 0 A; 6 C; 9 G; 3 T; 0 U; 0 Other;
XX
Query Match 2.8%; Score 11.8; DB 1; Length 18;
Best Local Similarity 86.7%; Pred. No. 5.6e+02; Matches 13; Conservative 0; Indels 0; Gaps 0;
QY 37 9 ACCGGAGCAGGGCG 393

DB 15 ACCGGGGAGCGCG 1
XX
RESULT 1174
AS17140/C
ID AS17140 standard; DNA; 18 BP.
XX
AC
XX
DT 14-FEB-2002 (first entry)

XX
DE Human acid sensing ion channel subunit 3, ASIC3A, RT-PCR primer #1.

XX
Human; ss; acid sensing ion channel; ASIC3A; analgesic; anti-HIV; neuroprotective; nootropic; antiparkinsonian; anticonvulant; cerebroprotective; cardiotropic; antiangiinal; hypotensive; RT-PCR primer; antiatherosclerotic; vasoconstrictor; tranquiliser; antidepressant; chronic pain; neuropathic pain; diabetes; cancer; AIDS; acquired immunodeficiency syndrome; neurodegenerative disease; Alzheimer's disease; Parkinson's disease; Huntington's disease; dementia; Creutzfeldt-Jacob disease; amyotrophic lateral sclerosis; convulsions; anxiety; depression; angina; cardiovascular disease; congestive heart failure; vasoconstriction; hypertension; atherosclerosis; restenosis; bleeding; gene therapy; Homo sapiens.
OS
DN WO200181570-A2.
XX
PR 01-NOV-2001.

XX
PF 20-APR-2001; 2001WO-CA000561.
XX
PR 20-APR-2000; 2000CA-02304494.

XX
PA (UWNC-) UNIV MCGILL.
XX
PI Seguela P, Babinski K;
XX
DR WPT; 2002-055353/07.

XX
PT New heteromultimeric proton-gated ion channel for diagnosing, treating diseases associated with expression of the channel e.g. neurodegenerative diseases, comprises two different types of acid sensing ion channel subunits.
XX
PS Example 3; Page 102; 105pp; English.

CC The invention relates to a protein complex forming a heteromultimeric amiloride-and gadolinium-sensitive proton-gated cation channel (ASIC-2S.2), where the individual components of the heteromultimeric channel include the acid sensing ion channel (ASIC2A and ASIC3 protein or their variants having 80% sequence identity, the channel being activated by protons, acids, low pH solutions, the nucleic acids encoding the subunits, a recombinant bicistronic vector comprising a nucleic acid encoding at least two individual subunits or variants of ASIC-2S.2, a host cell comprising the vector, an antibody raised against one of the subunits or a domain which is capable of disrupting assembly of the ion channel and anti/agonists of the ion channel. The polypeptides and polynucleotides are useful for diagnosing a disease or a susceptibility to a disease in a subject related to expression or activity of the heteromultimeric channel (e.g. by gene therapy using the vector). Such diseases include chronic pain, neuropathic pain such as diabetic-, cancer - and AIDS (acquired immunodeficiency syndrome)-related, neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, Huntington's disease, Creutzfeldt-Jacob disease, and amyotrophic lateral sclerosis and dementias, including AIDS-related as well as depression. Such diseases include chronic pain, neuropathic pain such as diabetic-, cancer - and AIDS (acquired immunodeficiency syndrome)-related, neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, Huntington's disease, Creutzfeldt-Jacob disease, and amyotrophic lateral sclerosis and dementias, including AIDS-related as well as depression. They are also useful for treating cardiovascular diseases such as angina, congestive heart failure, vasocostriction, hypertension, atherosclerosis, restenosis and bleeding. ASIC-2S.2 plays a role in the regulation of neurotransmitter release, neuronal excitability or excitotoxicity and is useful in screening for compounds that regulate neurotransmitter release, synaptic efficacy, neuroexcitability or neurotoxicity. The present sequence is an RT (reverse transcriptase) PCR primer used to measure the tissue distribution of mRNA encoding human ASIC3A
XX
SQ Sequence 18 BP; 3 A; 7 C; 3 G; 5 T; 0 U; 0 Other;
XX
Query Match 2.8%; Score 11.8; DB 1; Length 18;
Best Local Similarity 86.7%; Pred. No. 5.6e+02; Matches 13; Conservative 0; Indels 0; Gaps 0;
QY 36 GACGAGATGGCAC 50
DB 16 GAGGAGGTGGCAC 2
XX
RESULT 1175
AB138807/C
ID AB138809 standard; DNA; 18 BP.
XX
AC AB138809;
XX
DT 16-APR-2002 (first entry)
XX
DE Immunostimulatory nucleic acid SEQ ID NO: 190.
XX
Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
KW angiogenesis; metastasis; cytostatic; sb.
OS Synthetic.
XX

PN WO200197843-A2.

XX PD 27-DEC-2001.

XX PF 22-JUN-2001; 2001WO-US020154.

XX PR 22-JUN-2000; 2000US-0213346P.

XX PA (IOWA) UNIV IOWA RES FOUND.

PI Weiner G, Hartmann G;

XX DR WPI; 2002-154611/20.

PT Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of developing cancer.

PS Disclosure; Page 144; 312pp; English.

The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-Hodgkin's lymphoma, melanoma, oral cavity cancer, ovarian cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the exemplification of the invention.

SQ Sequence 18 BP; 0 A; 6 C; 9 G; 3 T; 0 U; 0 Other;

Query Match	2.8%	Score	11.8	DB	1	Length	18
Best Local Similarity	86.7%	Pred.	No.	5.6e+02			
Matches	13	Mismatches	0	Indels	0	Gaps	0
Qy	379	CCCGGACGAGCGG	393	D _b	15	ACCCGGACGGCG	1

RESULT 1176

ABS6020/C ID ABS60920 standard; DNA; 18 BP.

XX AC ABS60920;

XX DT 05-NOV-2002 (first entry)

XX DE Human genotyping PCR primer #73.

XX Human; ss; aminopeptidase P; XPNPE2; bradykinin receptor B1; primer; BokRB1; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; Kuklein, I.; Kukl; bradykinin receptor B2; BKRB2; gene therapy; angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma; cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertrophy; ventricular hypertrophy; ventricular hypertrophy; vascular disease; aneuroysm; embolism; thrombosis; coronary artery disease; arteriosclerosis and/or atherosclerosis; and hyper-sensitivity reactions; sepsis; autoimmune diseases; inflammatory arthritis; cancer; wounds; viral; bacterial or fungal infection; Chronic obstructive pulmonary disease (COPD) and enterocolitis (many other diseases and disorders are listed in the specification). The polynucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is a genotyping PCR primer for the gene encoding one of the proteins listed above

SQ Sequence 18 BP; 1 A; 3 C; 8 G; 6 T; 0 U; 0 Other;

Query Match	2.8%	Score	11.8	DB	1	Length	18
Best Local Similarity	86.7%	Pred.	No.	5.6e+02			
Matches	13	Mismatches	0	Indels	0	Gaps	0
Qy	297	AAGGACTGAGGCC	311	D _b	16	AGGCCCTGACCC	2

XX OS Homo sapiens.

XX PN WO200261131-A2.

RESULT 1177
 ABS0947
 ID ABS60947 standard; DNA; 18 BP.
 XX
 AC ABS60947;
 XX
 DT 05-NOV-2002 (first entry)
 XX
 DB Human genotyping PCR primer #100.
 XX
 Human; ss; aminopeptidase P; XPNEP2; bradykinin receptor Bl; primer;
 KW BDKRB1; tachykinin receptor Bl; TACR1; Cl esterase inhibitor; CINH;
 KW kallikrein 1; KUK1; bradykinin receptor B2; BDKRB2; gene therapy;
 KW angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4;
 KW cardiovascular disease; angina pectoris; hypertension; heart failure;
 KW myocardial infarction; ventricular hypertrophy; vacular disease;
 KW aneurysm; embolism; thrombosis; coronary artery disease; angioedema;
 KW autoimmune disease; inflammatory arthritis; cancer; wound; genotyping;
 KW viral infection; bacterial infection; fungal infection; COPD;
 KW Chronic obstructive pulmonary disease; enterocolitis.
 XX
 OS Homo sapiens.
 XX
 PN WO200261131-A2.
 XX
 PD 08-AUG-2002.
 XX
 PR 03-DEC-2001; 2001IWO-US047235.
 XX
 PR 04-DEC-2000; 2000US-0251015P.
 XX
 PR 23-JAN-2001; 2001US-0263678P.
 PR 02-MAR-2001; 2001US-0273037P.
 XX
 PA (BRIM) BRISTOL-MYERS SQUIBB CO.
 PA (TSUC/) TSUCHIHASHI Z.
 PA (HUIL/) HUI L.
 XX
 PI Tsuchihashi Z, Hui L, Zerba KE, Ma-Edmonds M, Perrone MH;
 PI Swanson BN, Powell JR;
 XX
 WPI; 2002-619265/66.

New isolated nucleic acid with at least one polymorphic position, useful for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and autoimmune diseases.

Example 3; Page 905; 97pp; English.

XX
 CC The invention relates to an isolated nucleic acid from a human gene encoding aminopeptidase P (XPNEP2); bradykinin receptor Bl (BDKRB1), tachykinin receptor Bl (TACR1), Cl esterase inhibitor (CINH), kallikrein 1 (KUK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme 2 (ACE2) or protease inhibitor 4 (PI4), comprising at least one polymorphic position. Also included are (1) a probe that hybridises to a polymorphic position as provided in the detailed summary of single nucleotide polymorphisms comprising additional 5', and 3', flanking genomic sequence; (2) analysing (M1) at least one nucleic acid sample comprising obtaining the sample from one or more individuals and determining the nucleic acid sequence at one or more polymorphic positions in a gene encoding a protein selected from the group above; (3) constructing (M2) haplotypes using the genes comprising grouping at least two nucleic acids ; (4) identifying (M3) an individual at risk of developing a disorder upon administration of an ACE inhibitor and/or vasopeptidase inhibitor using the polymorphic data; (5) a library of nucleic acids, each of which comprises one or more polymorphic positions within a gene encoding a human protein selected from the group above; and (6) genotyping (M4) an individual comprising obtaining a nucleic acid sample, determining the nucleotide present in at least one polymorphic position, and comparing at least one position with a known data set. The genes, (M1, M2, M3 and M4) and compositions are useful for detecting, diagnosing, treating,

CC preventing various disorders such as angioedema and diseases which involve angiogenesis like haemangioma, tumours, sarcomas, Crohn's disease, trachomas and cardiovascular diseases like angina pectoris, hypertension, heart failure, myocardial infarction, ventricular hypertrophy, vascular diseases, aneurysm, embolism, thrombosis, coronary artery disease, arteriosclerosis and/or atherosclerosis, and hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory arthritis, cancer, wounds, viral, bacterial or fungal infection, Chronic obstructive pulmonary disease (COPD) and enterocolitis (many other diseases and disorders are listed in the specification). The antibodies poly nucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is a genotyping PCR primer for the gene encoding one of the proteins listed above

XX Sequence 18 BP; 2 A; 5 C; 8 G; 3 T; 0 U; 0 other;

CC Query Match 2.8%; Score 11.8; DB 1; Length 18;
 CC Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC Db QY 266 GCACCTGGAGCAGGG 280
 Db 3 GCACCTGGAGTGGG 17

RESULT 1178
 ABS60977/C
 ID ABS60977 standard; DNA; 18 BP.
 XX
 AC ABS60977;
 XX
 DT 05-NOV-2002 (first entry)
 XX
 DE Human genotyping PCR primer #130.
 XX
 Human; ss; aminopeptidase P; XPNEP2; bradykinin receptor Bl; primer;
 KW BDKRB1; tachykinin receptor Bl; TACR1; Cl esterase inhibitor; CINH;
 KW kallikrein 1; KUK1; bradykinin receptor B2; BDKRB2; gene therapy;
 KW angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4;
 KW cardiovascular disease; angina pectoris; hypertension; heart failure;
 KW myocardial infarction; ventricular hypertrophy; vascular disease;
 KW aneurysm; embolism; thrombosis; coronary artery disease; angioedema;
 KW autoimmune disease; inflammatory arthritis; cancer; wound; genotyping;
 KW viral infection; bacterial infection; fungal infection; COPD;
 KW Chronic obstructive pulmonary disease; enterocolitis.
 XX
 OS Homo sapiens.
 XX
 PN WO200261131-A2.
 XX
 PD 08-AUG-2002.
 XX
 PR 03-DEC-2001; 2001IWO-US047235.
 XX
 PR 04-DEC-2000; 2000US-0251015P.
 PR 23-JAN-2001; 2001US-0263678P.
 PR 02-MAR-2001; 2001US-0273037P.
 XX
 PA (BRIM) BRISTOL-MYERS SQUIBB CO.
 PA (TSUC/) TSUCHIHASHI Z.
 PA (HUIL/) HUI L.
 XX
 PI Tsuchihashi Z, Hui L, Zerba KE, Ma-Edmonds M, Perrone MH;
 PI Swanson BN, Powell JR;
 XX
 WPI; 2002-619265/66.

New isolated nucleic acid with at least one polymorphic position, useful for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and

PT autoimmune diseases.
 XX
 PS Example 3; Page 909; 977pp; English.
 XX
 CC The invention relates to an isolated nucleic acid from a human gene
 encoding aminepeptidase P (XPNPEP2), bradykinin receptor Bl (BDKRB1),
 tachykinin receptor Bl (TACR1), Cl esterase inhibitor (C1INH), kalikrein
 1 (KLK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme
 2 (ACE2), or bradykinin inhibitor A (PIA), comprising at least one
 polymorphic position. Also included are (1) a probe that hybridises to a
 polymorphic position as provided in the detailed summary of single
 nucleotide polymorphisms comprising additional 5' and 3' flanking genomic
 sequence; (2) analysing (M1) at least one nucleic acid sample comprising
 obtaining the sample from one or more individuals and determining the
 nucleic acid sequence at one or more polymorphic positions in a gene
 encoding a protein selected from the group above; (3) contracting (M2)
 haplotypes using the genes comprising grouping at least two nucleic acids
 upon administration of an ACE inhibitor and/or vasopeptide inhibitor
 using the polymorphic data; (5) a library of nucleic acids, each of which
 comprises one or more polymorphic positions within a gene encoding a
 human protein selected from the group above; and (6) genotyping (M4) an
 individual comprising obtaining a nucleic acid sample, determining the
 nucleotide present in at least one polymorphic position, and comparing at
 least one position with a known data set. The genes (M1, M2, M3 and M4)
 and compositions are useful for detecting, diagnosing, treating,
 preventing various disorders such as angioedema and diseases which
 involve angiogenesis like haemangiomas, tumours, sarcomas, Crohn's
 disease, trachoma and cardiovascular diseases like angina pectoris,
 hypertension, heart failure, myocardial infarction, ventricular
 hypertrophy, vascular diseases, aneurysm, embolism, coronary
 artery disease, arteriosclerosis, and/or atherosclerosis, and
 hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory
 arthritis, cancer, wounds, viral, bacterial or fungal infection, Chronic
 obstructive pulmonary disease (COPD), and enterocolitis (many other
 diseases and disorders are listed in the specification). The antibodies
 polynucleotides are also useful for chromosome identification. Antibodies
 against the proteins may be utilised for immunophenotyping of cell lines
 and biological samples. The present sequence is a genotyping PCR primer
 for the gene encoding one of the proteins listed above
 XX Sequence 18 BP; 0 A; 10 C; 3 G; 5 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 29 GGCTGGGAGCA 43
 DB 17 GGGAGGGAGGAGA 3
 XX RESULT 1179
 ID AAD4005/C
 XX AAD4005 standard; DNA; 18 BP.
 AC AAD40053;
 XX DT 22-OCT-2002 (first entry)
 DE Human PTEN antisense oligonucleotide, ISIS 29598.
 KW Human; phosphoinositide phosphatase; PTEN; liver; cholesterol;
 KW metabolic disease; diabetes; hyperproliferative; glucose; insulin; PEPCK;
 KW triglyceride; antisense gene therapy; cytostatic; adipose; cell;
 KW antiproliferative; antisense; phosphorothioate backbone; ss.
 XX OS Homo sapiens.
 OS Synthetic.
 XX
 FH Key modified_base 1..18
 FT Location/Qualifiers /*tag= a
 PT

PT /mod_base= OTHER
 PT /note= "Phosphorothioate backbone"
 XX 1. .4
 PT /*tag= b
 PT /mod_base= OTHER
 CC /note= "2'methoxyethyl nucleotides"
 CC 15. .18
 PT /*tag= c
 PT /mod_base= OTHER
 CC /note= "2'methoxyethyl nucleotides"
 CC XX US2002058638-A1.
 PN PD 16-MAY-2002.
 PR XX 11-JUN-2001; 2001US-00878582.
 PR XX 21-JUL-1999; 99US-00358381.
 PR 14-DEC-1999; 99WO-US029594.
 PR 24-MAY-2000; 2000US-00577902.
 PR XX (MONIA B P.
 PA (COWS/) CONSERV L M.
 PA (MCKAY R.
 PI Monia BP, Conserv LM, McKay R;
 DR XX WPI; 2002-479187/51.
 PT XX New compound, preferably an antisense oligonucleotide, that hybridizes
 PT and inhibits the expression of phosphoinositide phosphatase (PTEN), for
 PT treating diseases such as diabetes, or a hyperproliferative condition.
 PT XX Example 15; Page 34; 39pp; English.
 CC The invention relates to antisense compounds, compositions and methods
 CC for modulating the expression of phosphoinositide phosphatase (PTEN). The
 CC antisense compound is used to inhibit the expression of PTEN in cells or
 CC tissues, preferably human, or rodent, such as mouse or rat, liver, kidney
 CC or adipose cells or tissues. It is used to treat a disease or condition
 CC associated with PTEN, such as a metabolic disease or condition,
 CC preferably diabetes, especially Type 2 diabetes, or a hyperproliferative
 CC condition. It is also used to decrease blood glucose or insulin levels in
 CC an animal, preferably a diabetic human or rodent. It is also used to
 CC inhibit expression of PRCK in cells or tissues. It is also used to
 CC decrease insulin resistance, or increase insulin sensitivity, in an
 CC animal, preferably a diabetic human or rodent. It is used to decrease
 CC blood triglyceride or cholesterol levels in an animal, preferably a
 CC diabetic human or rodent. It is also used in antisense gene therapy. The
 CC present sequence is an antisense oligonucleotide targeted to human PTEN
 DNA
 XX SQ Sequence 18 BP; 6 A; 3 C; 2 G; 7 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 406 TCTACTGTGATGAGA 420
 DB 18 TCTATGTGATGAGA 4
 XX RESULT 1180
 ID ABL43688/C
 XX ABL43688 standard; DNA; 18 BP.
 AC ABL43688;
 XX DT 11-APR-2002 (first entry)
 DE XX Human chromosome 1p36-35 PCR primer SEQ ID NO:732.
 PT

Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome; PCR primer; ss.
 XX
 OS
 PN
 XX
 PD
 20-NOV-2001.
 XX
 PR
 10-MAR-2001; 2000JP-00068285.
 XX
 PA
 (RIKAGAKU KENKYUSHO.
 (GENO-) GENOTEX YG.
 XX
 DR
 WPI; 2002-144136/19.
 PT
 Arraying genome clones.
 XX
 PS
 Claim 4; Page 19; 528pp; Japanese.
 CC
 The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in multiwell plates numbered for discrimination are mixed in each of the multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a signal corresponding to the marker is detected from the resultant amplified product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence; (d) the order of the markers is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos.; to array the multiwell plates; (e) the clones in the multiwell plates of the specified discrimination Nos. are mixed respectively in each wells of longitudinal and lateral directions; (f) the mixed clones are cultured and the resultant cultures are amplified by using the above primer; (g) signals are detected from the amplified products; (h) the clones in the multiwell plates are specified from the detected result; and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL42957 to ABL45322 represent PCR primers for human chromosome 1p36-35 DNA, and ABL4323 to ABL45634 represent PCR primers for human chromosome 21q22.1, which are specifically claimed for use in the present invention
 XX
 SQ Sequence 18 BP; 5 A; 7 C; 4 G; 2 T; 0 U; 0 Other;
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matchers 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 270 CTGGAGCAGGTGGC 284
 DB 18 CTGGAGCAGGTGGC 4
 RESULT 1181
 ABL44670
 ID ABL44670 standard; DNA; 18 BP.
 XX
 AC ABL44670;
 XX
 DT 11-APR-2002 (first entry)
 DE Human chromosome 1p36-35 PCR primer SEQ ID NO:1714.
 XX
 KW Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome; PCR primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN JP2001321190-A.
 PD 20-NOV-2001.

XX
 PA (CSIR) COMMONWEALTH SCI & IND RES ORG.
 PA (INTE-) IND TECHNOLOGY RES INST.
 XX
 PT Werkmeister JA, Tsai W, Ramshaw JAM, Thissen HW, Chang K;
 DR WPI; 2002-723145/7B.

XX
 PT New device having tissue-like characteristics useful for treating diseased or damaged tissue, e.g. articular cartilage associated with primary osteoarthritis, or for tissue augmentation for cosmetic purposes.

PS Example 20; Page 18; 52pp; English.

The present invention relates to methods and devices for tissue repair. The devices have tissue-like characteristics for treating diseased or damaged tissue or for augmenting tissue in a subject. The device comprises cells of type(s) normally found in healthy tissue corresponding to the diseased or damaged tissue or in the tissue to be augmented, and/or its suitable progenitor cells in association with bioreversible beads or particles, and optionally a gel and/or gel forming substance. The cells and/or suitable progenitor cells are chondrocytes, embryonic stem cells, and/or bone marrow stromal cells. The devices and methods are useful for treating diseased or damaged tissue in a subject, such as articular cartilage degeneration associated with primary osteoarthritis, or other articular cartilage damage caused by sporting injuries or trauma. They are also useful for tissue augmentation for cosmetic purposes, e.g. treatment of scars or facial wrinkles. The present devices and methods provide treatment that is less traumatic than previous art. The use of biodegradable polymers in the device offer advantages over non-degradable polymers in that their gradual degradation steadily creates room for tissue growth and eliminate the need for surgical removal of the scaffolds following resection of the articular cartilage. Another advantage is its ability to be administered by injection if desired. The beads or particles provide mechanical and space-filling benefits while tissue regeneration is progressing, by offering physical support and resistance to compression. The present sequence represents a PCR primer used to amplify pig SOX9 cDNA, in the examples of the present invention.

XX Sequence 18 BP; 4 A; 6 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservatve 0; Mismatches 2; Indels 0; Gaps 0;

Db 18 ATGAACCTGAGCCCC 311

RESULT 1184
 ABL31388/C
 ID ABL31388 standard; DNA; 18 BP.

XX
 AC ABL31388;
 DT 21-MAR-2002 (first entry)
 DE Human HLA genotyping oligonucleotide SEQ ID NO 877.
 XX
 KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
 KW immunogenetic; transplantation; genetic disease; SB.
 OS Homo sapiens.
 PN WO200192572-A1.

XX
 PD 06-DEC-2001.
 XX
 PF 01-JUN-2001; 2001WO-JP004662.

XX
 PR 01-JUN-2000; 2000JP-0016798.

XX
 PA (NISHIHIRO IND INC.
 PA (SYST-) SYSTEM RES INC.
 PI Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
 DR WPI; 2002-122074/16.

XX
 PT Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of individuals e.g. by determining immunogenetic differences when transplanting between them.

XX
 PS Claim 10; Page 259; 345pp; Japanese.

XX
 PN The invention relates to a typing kit for judging human leukocyte antigen (HLA) genotype of a sample by hybridizing a substrate on which 10-24 base oligonucleotides (ABL3051-ABL3180) originating in the sequences of genes e.g. belonging to HLA class I antigen on human genome and containing gene polymorphisms as allosignals have been immobilized as primers for amplification of cleaved nucleic acids relating to gene polymorphism. The method is useful for judging HLA genotypes of

XX
 PA (CANON) CANON KK.
 XX
 DR WPI; 2002-552742/59.

XX
 PT Preparation of an end-labelled probe array, for capturing a target substance.

XX
 PT Example 1; Page 5; 25pp; Japanese.

XX
 CC The invention comprises a method for the synthesis of an end-labelled probe array - in which part of a probe for capturing a target substance is fixed at a plural of the matrix-sites on the surface of a probe array substrate. In the method of the invention the units for constituting the probe are combined successively and, at the final stage of the successive synthesis, a labelling substance is combined to the end of the probe and extended to a desired chain length. The method of the invention is useful for the production of a probe array. The present DNA sequence represents an oligonucleotide that was used in an example of the invention.

XX
 SQ Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;

QY 297 AGGAGCCTGAGCCCC 311

XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservatve 0; Mismatches 2; Indels 0; Gaps 0;

Db 18 ATGAACCTGAGCCCC 4

RESULT 1184
 ABL31388/C
 ID ABL31388 standard; DNA; 18 BP.

XX
 AC ABL31388;
 DT 21-MAR-2002 (first entry)
 DE Human HLA genotyping oligonucleotide SEQ ID NO 877.
 XX
 KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
 KW immunogenetic; transplantation; genetic disease; SB.
 OS Homo sapiens.
 PN WO200192572-A1.

XX
 PD 06-DEC-2001.
 XX
 PF 01-JUN-2001; 2001WO-JP004662.

XX
 PR 01-JUN-2000; 2000JP-0016798.

XX
 PA (NISHIHIRO IND INC.
 PA (SYST-) SYSTEM RES INC.
 PI Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
 DR WPI; 2002-122074/16.

XX
 PT Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of individuals e.g. by determining immunogenetic differences when transplanting between them.

XX
 PS Claim 10; Page 259; 345pp; Japanese.

XX
 PN The invention relates to a typing kit for judging human leukocyte antigen (HLA) genotype of a sample by hybridizing a substrate on which 10-24 base oligonucleotides (ABL3051-ABL3180) originating in the sequences of genes e.g. belonging to HLA class I antigen on human genome and containing gene polymorphisms as allosignals have been immobilized as primers for amplification of cleaved nucleic acids relating to gene polymorphism. The method is useful for judging HLA genotypes of

XX
 PA (CANON) CANON KK.
 XX
 DR WPI; 2002-552742/59.

XX
 PT Preparation of an end-labelled probe array, for capturing a target substance.

XX
 PT Example 1; Page 5; 25pp; Japanese.

XX
 CC The invention comprises a method for the synthesis of an end-labelled probe array - in which part of a probe for capturing a target substance is fixed at a plural of the matrix-sites on the surface of a probe array substrate. In the method of the invention the units for constituting the probe are combined successively and, at the final stage of the successive synthesis, a labelling substance is combined to the end of the probe and extended to a desired chain length. The method of the invention is useful for the production of a probe array. The present DNA sequence represents an oligonucleotide that was used in an example of the invention.

XX
 SQ Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;

QY 297 AGGAGCCTGAGCCCC 311

XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservatve 0; Mismatches 2; Indels 0; Gaps 0;

Db 18 ATGAACCTGAGCCCC 4

RESULT 1184
 ABL31388/C
 ID ABL31388 standard; DNA; 18 BP.

XX
 AC ABL31388;
 DT 21-MAR-2002 (first entry)
 DE Human HLA genotyping oligonucleotide SEQ ID NO 877.
 XX
 KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
 KW immunogenetic; transplantation; genetic disease; SB.
 OS Homo sapiens.
 PN WO200192572-A1.

XX
 PD 06-DEC-2001.
 XX
 PF 01-JUN-2001; 2001WO-JP004662.

XX
 PR 01-JUN-2000; 2000JP-0016798.

XX
 PA (NISHIHIRO IND INC.
 PA (SYST-) SYSTEM RES INC.
 PI Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
 DR WPI; 2002-122074/16.

XX
 PT Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of individuals e.g. by determining immunogenetic differences when transplanting between them.

XX
 PS Claim 10; Page 259; 345pp; Japanese.

XX
 PN The invention relates to a typing kit for judging human leukocyte antigen (HLA) genotype of a sample by hybridizing a substrate on which 10-24 base oligonucleotides (ABL3051-ABL3180) originating in the sequences of genes e.g. belonging to HLA class I antigen on human genome and containing gene polymorphisms as allosignals have been immobilized as primers for amplification of cleaved nucleic acids relating to gene polymorphism. The method is useful for judging HLA genotypes of

XX
 PA (CANON) CANON KK.
 XX
 DR WPI; 2002-552742/59.

XX
 PT Preparation of an end-labelled probe array, for capturing a target substance.

XX
 PT Example 1; Page 5; 25pp; Japanese.

XX
 CC The invention comprises a method for the synthesis of an end-labelled probe array - in which part of a probe for capturing a target substance is fixed at a plural of the matrix-sites on the surface of a probe array substrate. In the method of the invention the units for constituting the probe are combined successively and, at the final stage of the successive synthesis, a labelling substance is combined to the end of the probe and extended to a desired chain length. The method of the invention is useful for the production of a probe array. The present DNA sequence represents an oligonucleotide that was used in an example of the invention.

XX
 SQ Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;

QY 297 AGGAGCCTGAGCCCC 311

XX
 Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservatve 0; Mismatches 2; Indels 0; Gaps 0;

Db 18 ATGAACCTGAGCCCC 4

RESULT 1184
 ABL31388/C
 ID ABL31388 standard; DNA; 18 BP.

XX
 AC ABL31388;
 DT 21-MAR-2002 (first entry)
 DE Human HLA genotyping oligonucleotide SEQ ID NO 877.
 XX
 KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
 KW immunogenetic; transplantation; genetic disease; SB.
 OS Homo sapiens.
 PN WO200192572-A1.

XX
 PD 06-DEC-2001.
 XX
 PF 01-JUN-2001; 2001WO-JP004662.

XX
 PR 01-JUN-2000; 2000JP-0016798.

XX
 PA (NISHIHIRO IND INC.
 PA (SYST-) SYSTEM RES INC.
 PI Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
 DR WPI; 2002-122074/16.

XX
 PT Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of individuals e.g. by determining immunogenetic differences when transplanting between them.

XX
 PS Claim 10; Page 259; 345pp; Japanese.

XX
 PN The invention relates to a typing kit for judging human leukocyte antigen (HLA) genotype of a sample by hybridizing a substrate on which 10-24 base oligonucleotides (ABL3051-ABL3180) originating in the sequences of genes e.g. belonging to HLA class I antigen on human genome and containing gene polymorphisms as allosignals have been immobilized as primers for amplification of cleaved nucleic acids relating to gene polymorphism. The method is useful for judging HLA genotypes of

CC individuals by determining immunogenetic differences before transplanting
 CC between them; providing genetic information to decide compatibility of
 CC organ and tissue for transplantation e.g. of bone marrow, kidney, liver,
 CC pancreas, langerhans islet in pancreas and cornea; susceptibility
 CC diagnosis of genetic diseases and identifying individuals
 XX Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
 SQ Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 394 CCAAGAGCTCTCT 408
 Db 16 CCAAGAGCTCTCT 2

RESULT 1185
 ID AB59653 standard; DNA; 18 BP.
 XX AB59653;
 AC DT 18-JUL-2002 (first entry)
 PA DR Oligonucleotide probe SEQ ID NO:18.
 XX KW Simultaneous determination; probe; ss.
 XX OS Synthetic.
 XX PN JP2002074089-A.
 XX PD 12-MAR-2002.
 XX PF 29-AUG-2000; 2000JP-00259715.
 XX PR 29-AUG-2000; 2000JP-00259715.
 XX PA (CANON) CANON KK.
 XX DR WPI; 2002-492955/53.
 XX PT Synthetic DNA selling system using the Internet; displays purchase order
 PT menu to orderer's terminal and initiates production of selected DNA for
 PT the successful bidder.
 XX PS Disclosure; Fig 5; 22PP; Japanese.
 XX CC The invention comprises a synthetic DNA selling system using the
 CC internet. The system displays a purchase order menu display with the
 CC number of base sequences or DNA from which the orderer select a DNA. The
 CC order information is transmitted to a successful bidder side server which
 CC orders for production and delivery of selected synthetic DNA. The system
 CC of the invention is useful for marketing synthetic DNAs of different base
 CC sequences and concentrations according to the desire of the user,
 CC especially genes concerned with human major histocompatibility complex
 CC (MHC). Oligonucleotides ABT06196 - ABT06278 are used in the invention
 XX SQ Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
 PT Query Match 2.8%; Score 11.8; DB 1; Length 18;
 PT Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0;
 PS Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX Example 1; Page 11; 24PP; Japanese.

XX The present invention describes a method for determining simultaneously
 CC the reactivity of a first sample with other samples, in which the second
 CC properties are arranged independently on a substrate, on whose surface
 CC the first sample is already present, and the reactivities between the
 CC first sample and each of the second to the 2 plus n-th samples are
 CC determined. Also described is a tissue sample matrix in which several
 CC samples from different sources are present on each matrix divided on a
 CC substrate. The method is used for determining simultaneously the
 CC reactivity of a first sample with several other differing samples.
 CC AB5936 to AB59701 represent oligonucleotide probes used in an example
 CC from the present invention
 XX Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
 CC Query Match 2.8%; Score 11.8; DB 1; Length 18;
 CC Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 297 AACGACCTGAGGCC 311
 Db 18 AACGACCTGAGGCC 4

RESULT 1186
 ID ABT0232/C
 ID ABT0232 standard; DNA; 18 BP.
 XX ABT06232;
 AC AC ABT06232;
 XX DT 24-OCT-2002 (first entry)
 XX DE Synthetic DNA selling system - related oligonucleotide 37.
 XX KW Synthetic DNA selling system; internet; ss; purchase order menu;
 XX major histocompatibility complex; MHC.
 XX OS Synthetic.
 XX PN JP2002074089-A.
 XX PD 12-MAR-2002.
 XX PF 29-AUG-2000; 2000JP-00259715.
 XX PR 29-AUG-2000; 2000JP-00259715.
 XX PA (CANON) CANON KK.
 XX DR WPI; 2002-492955/53.
 XX PT Synthetic DNA selling system using the Internet; displays purchase order
 PT menu to orderer's terminal and initiates production of selected DNA for
 PT the successful bidder.
 XX PS Disclosure; Fig 5; 22PP; Japanese.
 XX CC The invention comprises a synthetic DNA selling system using the
 CC internet. The system displays a purchase order menu display with the
 CC number of base sequences or DNA from which the orderer select a DNA. The
 CC order information is transmitted to a successful bidder side server which
 CC orders for production and delivery of selected synthetic DNA. The system
 CC of the invention is useful for marketing synthetic DNAs of different base
 CC sequences and concentrations according to the desire of the user,
 CC especially genes concerned with human major histocompatibility complex
 CC (MHC). Oligonucleotides ABT06196 - ABT06278 are used in the invention
 XX SQ Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
 PT Query Match 2.8%; Score 11.8; DB 1; Length 18;
 PT Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0;
 PS Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 XX Example 1; Page 11; 24PP; Japanese.

XX The present invention describes a method for determining simultaneously
 CC the reactivity of a first sample with other samples, in which the second
 CC properties are arranged independently on a substrate, on whose surface
 CC the first sample is already present, and the reactivities between the
 CC first sample and each of the second to the 2 plus n-th samples are
 CC determined. Also described is a tissue sample matrix in which several
 CC samples from different sources are present on each matrix divided on a
 CC substrate. The method is used for determining simultaneously the
 CC reactivity of a first sample with several other differing samples.
 CC AB5936 to AB59701 represent oligonucleotide probes used in an example
 CC from the present invention
 XX Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
 CC Query Match 2.8%; Score 11.8; DB 1; Length 18;
 CC Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 2; Indels 0; Gaps 0;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 297 AACGACCTGAGGCC 311
 Db 18 AACGACCTGAGGCC 4

RESULT 1187
 ID ABZ98176/C
 ID ABZ98176 standard; DNA; 18 BP.
 XX ABZ98176;
 AC AC ABZ98176;
 XX DT 17-OCT-2003 (first entry)
 XX DE Human CD23 + A1261 oligonucleotide sequence.
 XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
 KW antitussive; hypotensive; immunosuppressive; cytostatic; gene therapy;
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
 KW lung inflammation; respiratory disease; ds.
 XX OS Homo sapiens.

PN WO200285308-A2.
 XX
 PD 31-OCT-2002.
 XX
 PF 23-APR-2002; 2002WO-US013135.
 XX
 PR 24-APR-2001; 2001US-0286137P.
 XX
 PA (PIIG-) EPIGENESIS PHARM INC.
 XX
 PI Nyce JW, Li Y, Sandrasegaran A, Katz E, Pabalan J, Aguilar D;
 PI Miller S, Tang L, Shahabuddin S;
 XX
 DR WPI; 2003-229219/22.

XX Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or PT ubiquinone.

XX Disclosure; SEQ ID NO 13418; 872pp; English.

The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in anti-tense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences)

SQ Sequence 18 BP; 1 A; 5 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 45 GGCCACCAATCAGAG 59
 Db 17 G\$ACACCAACAGAG 3

RESULT 1188
 ABX34365/C
 ID ABX34365 standard; DNA; 18 BP.
 AC
 XX
 DT 11-FEB-2003 (first entry)

PCR primer #2 for *S. atroolivaceus* leinamycin gene cluster ORF lmc.
 XX Leinamycin biosynthesis gene cluster; lmr; open reading frame; ORF;
 KW anti-tumour antibiotic; broad spectrum antimicrobial activity;
 KW Gram-positive; Gram-negative bacteria; chemical modification; metabolite;
 KW apocalyxin protein; holo-carril protein; tumour polyketide;
 KW hybrid polypeptide/polyketide metabolite; lmr production; cytostatic;
 KW PCR; primer; ss;
 XX OS Streptomyces atroolivaceus.

PN WO200277179-A2.
 XX
 PD 03-OCT-2002.
 XX
 PF 22-MAR-2002; 2002WO-US008937.
 XX
 PR 26-MAR-2001; 2001US-0278935P.
 XX
 PA (REGC) UNIV CALIFORNIA.
 PA (KYOW) KYOWA HAKKO KOGYO KK.
 XX
 PI Shen B, Cheng Y, Tang G;
 XX
 DR WPI; 2003-018907/01.

XX Novel gene cluster responsible for synthesis of leinamycin in *Streptomyces atroolivaceus* useful for making various peptide and/or polyketide, and/or hybrid polypeptide/polyketide metabolites.

PS XX Claim 1; Page 28; 185pp; English.

The present invention relates to the isolation of the *streptomyces atroolivaceus* leinamycin (Lm) biosynthesis gene cluster containing 71 open reading frames (ORFs) -35 through -1, ORFs lma through lme, and ORFs +1 through +91. Leinamycin is a novel anti-tumour antibiotic produced by several *Streptomyces* species. It exhibits broad spectrum antimicrobial activity against Gram-positive and Gram-negative bacteria, but not against fungi. The polypeptides encoded by the Lm biosynthesis gene cluster ORF are useful for chemically modifying a molecule in a host cell. The host cell is a bacterium or eukaryotic cell, including a mammalian, yeast, plant, fungal, or insect cell. The molecule is an endogenous metabolite produced by the host cell or exogenously supplied metabolite, or an amino acid, and the polypeptide is a peptidase synthetase or amino transferase. The polypeptides encoded by the Lm gene cluster are useful for converting an apo-carrier protein to a holo-carrier protein. Lm shows potent antitumour activity in tumour models *in vivo*. The Lm gene cluster modules and/or catalytic domains are useful for making various peptide and/or polyketide, and/or hybrid polypeptide/polyketide metabolites. The proteins encoded by the ORFs are useful alone, or in combination with other active domains to modify various target substrates. The Lm gene cluster is useful to upregulate endogenous Lm production to permit Lm production in cells and/or to make various modified Lm, Lm analogs, or other polyketide, peptide or hybrid polyketide/metabolite. Metabolites are useful as therapeutic agents, to treat a number of disorders, depending upon the type of metabolites. ABX34365 represent PCR primers used to amplify individual ORFs of the *S. atroolivaceus* leinamycin biosynthesis gene cluster

SQ Sequence 18 BP; 4 A; 8 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 15 CTCGGGTGACCGAG 29
 Db 18 CTCGGGTGACCGAG 4

RESULT 1189
 ABZ84114
 ID ABZ84114 standard; DNA; 18 BP.
 AC
 XX
 ABZ84114;
 DT 14-MAY-2003 (first entry)
 DE Toxicologically relevant rat PCR primer #1273.
 XX
 KW Toxicologically relevant gene; toxicological response; PCR primer; ss.
 OS Rattus sp.

OS Synthetic.

XX WO2003016500-A2.

PN XX

XX PD 27-FEB-2003.

XX PF 16-AUG-2002; 2002WO-US026514.

XX PR 16-AUG-2001; 2001US-0313080P.

XX PA (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY INC.

XX PT PI Neft RE, Dunn RT, Adkins K, Pickett GG, Kier LD, Schmeiser K;

XX PI Alen P;

XX DR WPI; 2003-268322/26.

XX PS Claim 1; Page 332; 455pp; English.

CC The present invention describes a method (M1) for determining a toxicological response to an agent, which comprises comparing the expression profile of one or more human toxic response genes to a reference gene expression profile indicative of toxicity, and so determining the presence of a toxic response to the agent. Also described: (1) an array comprising one or more polynucleotides selected from the genes corresponding to the partial sequences given in ABZ82842 to ABZ4764, or their fragments of at least 20 nucleotides, or homologues ; and (2) determining if a gene putatively identified to be a toxic response gene plays a role on toxic response pathways by determining the expression profile of the gene after exposure of cells or a human subject to a known toxic pharmaceutical or industrial agent, comprising: (a) exposing cells to an agent or isolating cells from a human subject who was exposed to an agent; (b) obtaining the test gene expression profile for a putatively identified toxic response gene after exposure to a known toxic pharmaceutical or industrial agent; and (c) comparing the test profile to the expression profile of a gene with a similar function or comparing the test profile to the expression profile of that gene after exposure to other known toxic compounds. The methods are useful for predicting and determining toxicological responses on a cellular, organ or system level. The arrays comprising the human genes are useful for toxicological screening of drugs, pharmaceutical compounds and chemicals

XX Sequence 18 BP; 2 A; 5 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;

Best Local Similarity 85.7%; Pred. No. 5.6e+02; Mismatches 13; Conservative 0; N mismatches 2; Indels 0; Gaps 0;

Qy 20 GCTGACGGAGGGCG 34

Db 3 GCTGACTGAGGGCTG 17

XX Sequence 18 BP; 3 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;

Best Local Similarity 86.7%; Pred. No. 5.6e+02; Mismatches 13; Conservative 0; N mismatches 2; Indels 0; Gaps 0;

Qy 267 CACCTGGAGGGC 281

Db 4 CATCGAGCATATGCC 18

XX RESULT 1191

AB56993 ID ABS56993 Standard; DNA; 18 BP.

XX AC AC

XX DT 29-JAN-2003 (first entry)

XX DE Implantation serine proteinase 1 (ISP1) RT-PCR primer #2.

XX KW Implantation serine proteinase 1; ISP1; female infertility; gene therapy; contraception; reverse transcriptase PCR; RT-PCR; primer; ss.

XX OS Synthetic.

XX PN WO20028165-A2.

XX

PD 17-OCT-2002.
 XX
 PF 08-APR-2002; 2002WO-CA000474.
 XX
 PR 06-APR-2001; 2001US-0281724P.
 PR 30-MAY-2001; 2001US-0294736P.
 PR 25-JAN-2002; 2002US-0350962P.
 XX
 PA (RANC/) RANCOURT D E.
 PA (RANC/) RANCOURT S L.
 PA (OSUL/) O'SULLIVAN C M.
 XX
 PI Rancourt DE, Rancourt SL, O'sullivan CM;
 XX
 DR WPI; 2003-058536/05.
 XX
 PT New purified Implantation Serine Proteinase protein for diagnosing, treating or ameliorating female infertility by modulating the process of hatching and implantation of the embryo.
 XX
 PS Example; Page 40; 85pp; English.
 XX
 CC The invention describes a purified Implantation Serine Proteinase (ISP) protein. The ISP protein is useful in diagnosing, treating or ameliorating female infertility (e.g. using gene therapy), particularly by modulating the process of hatching and implantation of the embryo. The ISP protein inhibitor is useful as contraception. This sequence represents a reverse transcriptase PCR primer used to isolate DNA encoding implantation serine proteinase 1 (ISP1) from embryo and placental tissue.
 CC Sequence 18 BP; 4 A; 7 C; 5 G; 2 T; 0 U; 0 Other;
 CC Best Local Similarity 2.8%; Score 11.8; DB 1; Length 18;
 CC Pred. No. 5.6e+02; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC
 Qy 35 GACGGAGATGCCAC 50
 Qy 1 GTCAAGAGATGCCAC 15
 Db
 RESULT 1193
 ACD9950/C
 ID ACD9950 standard; DNA; 18 BP.
 XX
 AC ACD9950;
 XX DT 25-SEP-2003 (First entry)
 DE Immunostimulatory nucleic acid #636.
 XX KW Immunostimulatory; antiinflammatory; dermatological; antiboriatric;
 KW antiulcer; gene therapy; vaccine; non-allergic inflammatory disease;
 KW psoriasis; eczema; allergic contact dermatitis; latex dermatitis;
 KW inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
 XX OS Syntetic.
 XX PN US2003050268-A1.
 XX PD 13-MAR-2003.
 XX PF 29-MAR-2002; 2002US-00112653.
 XX PR 29-MAR-2001; 2001US-0279642P.
 XX PA (KRIE/) KRIEG A. M.
 XX PA (BERG/) BERG D. J.
 PT Krieg AM, Berg DJ;
 XX DR WPI; 2003-521815/49.
 XX PT Treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
 XX
 PS Disclosure; Page 26; 229pp; English.
 XX
 CC The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease. This sequence represents an immunostimulatory nucleic acid.
 XX Sequence 18 BP; 0 A; 6 C; 9 G; 3 T; 0 U; 0 Other;
 XX
 DR Query Match 2.8%; Score 11.8; DB 1; Length 18;
 XX Best Local Similarity 86.7%; Pred. No. 5.6e+02;
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 PT Novel recombinantly produced alpha-amino ester hydrolase protein useful in the production of beta-lactam antibiotics.

QY 379 ACCGCCAGACGACGGCG 393
Dy ||||| ||||| ||||| 1
Db 15 ACCGCCAGACGGCG 1
RESULT 1194
ID AAD58047 standard; DNA; 18 BP.
XX
AC AAD58047;
XX
DT 20-NOV-2003 (first entry)
XX
DE Dehalococcoides family A group 16S rDNA amplifying primer, RpDhcA01213.
XX
KW 16S rRNA; dechlorinating bacterial organism; PCR; primer; ss.
OS Dehalococcoides sp.
XX
PN WO2003064695-A1.
PR 07-AUG-2003.
XX
PP 30-JAN-2002; 2002WO-US003927.
XX
PR 30-JAN-2002; 2002WO-US003927.
XX
PA (DUPO) DU PONT DE NEMOURS & CO E.I.
PI Ebersole R, Hendrickson B;
XX
DR WPI; 2003-513746/48.
XX
PT New isolated *Thermus igniterrae* nucleic acid polymerases and nucleic acids encoding the polymerases, useful for DNA synthesis, primer extension, DNA sequencing, reverse transcription, or DNA and RNA amplification procedures.
XX
RS Example 1; Page 47; 67pp; English.
XX
CC The present sequence is that of a PCR primer based on a conserved region of *Thermus aquaticus*, *Thermus thermophilus*, *Thermus filiformis*, *Thermus caldophilus* and *Thermus flavus* nucleic acid polymerases. It was used as C-terminal Primer, with the N-terminal primer given in ACF05367, in a PCR amplification of *Thermus igniterrae* strain ID RF-4 (ATCC 700562) DNA. A gene fragment was obtained, and subsequent PCRs yielded a full-length coding sequence (see ACF05363) for *T. igniterrae* nucleic acid polymerase. The invention provides nucleic acid polymerase polynucleotides, vectors, host cells and polypeptides, including mutants having reduced 5'-3' exonuclease activity and/or reduced bias against dNTP incorporation. These wild-type and mutant enzymes are used in claimed methods for thermocyclic nucleic acid amplification, especially strand displacement amplification or PCR, and for primer extension
CC
XX
SQ Sequence 18 BP; 3 A; 9 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 18;
Best Local Similarity 86.7%; Pred. No. 5.6e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 138 CCCTGACGGTGGAG 152
DB 15 CCCTGAGGGAG 1
XX
RESULT 1195
ID ADA50410/C
XX
AC ADA50410;
XX
DT 20-NOV-2003 (first entry)
XX
DE *Thermus scotoductus* nucleic acid polymerase PCR primer SEQ ID NO:35.
XX
KW nucleic acid polymerase; enzyme; *Thermus scotoductus*; DNA polymerase; salt tolerance; thermostability; PCR primer; ss.
OS Synthetic.
OS *Thermus scotoductus*.
XX
PN WO2003066814-A2.
XX
PD 14-AUG-2003.
XX
PP 13-SEP-2002; 2002WO-US029102.
XX
PR 14-SEP-2001; 2001US-0322218P.
XX
DT 06-NOV-2003 (first entry)
XX
DE *Thermus igniterrae* nucleic acid polymerase PCR primer.
XX
KW Nucleic acid polymerase; enzyme; strand displacement amplification; PCR;

PR 30-NOV-2001; 2001US-0334489P.
 XX
 PA (APPL-) APPLERA CORP.
 PA (BOLC/) BOLCHAKOVA E. V.
 PA (ROZZ/) ROZZELLE J. E.
 XX
 PI Bolchakova EV, Rozzelle JE;
 XX
 DR WPI; 2003-663590/62.

PT New nucleic acid encoding a *Thermus scotoductus* strain X-1, ATCC Deposit No. 27978 nucleic acid polymerase, useful for producing nucleic acid polymers having e.g., improved sequence discrimination or better salt tolerance.

XX
 PS Example 1; Page 80; 179PP; English.

XX
 CC The present invention describes isolated nucleic acids encoding nucleic acid polymerases from *Thermus scotoductus*. Also described: (1) an isolated nucleic acid (I) encoding a nucleic acid polymerase from *Thermus scotoductus* strain X-1, ATCC Deposit No. 27978; (2) an isolated DNA polymerase polypeptide from *Thermus scotoductus* strain X-1, ATCC Deposit No. 27978; (3) an isolated nucleic acid (III) comprising any of a set of 12 nucleic acid sequences (S1, see AD50425 to AD50436) which encodes a nucleic acid polymerase; (4) an isolated nucleic acid (III) encoding a nucleic acid polymerase comprising any of a set of 16 amino acid sequences (S2, see AD50392 to AD50440); (5) isolated nucleic acid polymerases comprising any of amino acid sequences S2; (6) vectors comprising (I), (II), or (III), and especially expression vectors in which the nucleic acid polymerase gene is operably linked to a promoter; (7) a host cell comprising an isolated nucleic acid molecule encoding a nucleic acid polymerase from *Thermus scotoductus* strain X-1, ATCC Deposit No. 27978; (8) a host cell comprising (I) or (II); (9) a kit comprising a container containing a nucleic acid polymerase comprising any of amino acid sequences S2; (10) preparing (M1) a nucleic acid polymerase comprising any of amino acid sequences S2 by incubating a host cell comprising an encoding nucleic acid under conditions sufficient for RNA transcription and translation; (11) a nucleic acid polymerase prepared by M1; (12) synthesising DNA (M2) comprising contacting a polypeptide comprising any of amino acid sequences S2 with a DNA under conditions sufficient to permit DNA polymerisation; (13) a method (M3) for thermocyclic amplification of nucleic acid; and (14) a method (M4) of primer extension. The nucleic acid is useful for producing nucleic acid polymerases having improved sequence discrimination, better salt tolerance or varying degrees of thermostability with applications e.g. in PCR and DNA sequencing. The present sequence represents a PCR primer for *Thermus scotoductus* nucleic acid polymerase, which is used in an example from the present invention.

XX
 SQ Sequence 18 BP; 0 A; 6 C; 9 G; 3 T; 0 U; 0 Other;

XX
 CC Query Match 379 ACCGGGACGAGGGCG 393
 CC Best Local Similarity 86.7%; Score 11.8; DB 1; Length 18;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC ID ADC9372/C
 CC ID ADC9372 standard; DNA; 18 BP.
 AC AC
 AC ADC9372;
 DT DT 01-JAN-2004 (first entry)

DE PAMA forward PCR primer - SEQ ID 205.

XX
 KW cytostatic; cancer; gene therapy; DGI-2; DGI-5; DGI-7; DGI-9; Hras; leptin; VEGF; vascular endothelial growth factor receptor; VEGFR1; VEGFR2; VEGFR3; Flt1; FMS-related tyrosine kinase 1; Flck1; Kdr; kinase insert domain protein; EGFR; epidermal growth factor; FGFR1; fibroblast growth factor; Tie-1; PCR; ss; primer.

XX
 KW Unidentified.

XX
 PN WO2003035839-A2.

XX
 PD 01-MAY-2003.

XX
 PR 24-OCT-2002; 2002WO-US034021.

XX
 PR 24-OCT-2001; 2001US-0345471P.

XX
 PA (DGIB-) DGI BIOTECHNOLOGIES INC.

XX
 PI Pillatia RC, Brissette R, Spruyt M, Dedova O, Blume A;
 PI Prendergast J, Goldstein N;

XX
 KW ds: allergy; asthma; poly-G nucleic acid; aerosol formulation;
 KW hypo-responsive subject; immunostimulatory.

XX
 XX
 RESULT 1197
 ADB36985/C
 ID ADB36986 standard; DNA; 18 BP.
 AC ADB36985;
 XX
 DT 04-DEC-2003 (first entry)
 XX
 DE Immunosimulatory nucleic acid #600.
 KW ds: allergy; asthma; poly-G nucleic acid; aerosol formulation;
 KW hypo-responsive subject; immunostimulatory.

XX
 XX
 OS Synthetic.
 XX
 PN US2003087848-A1.
 XX
 PD 08-MAY-2003.
 XX
 PR 02-FEB-2001; 2001US-00776479.
 XX
 PR 03-FEB-2000; 2000US-0179991P.
 XX
 PA (BRAT/) BRATZLER R. L.
 PA (PEER/) PETERSEN D. M.
 PA (FOUR/) FOURON Y.

XX
 PI Bratzler RL, Petersen DM, Fouron Y;
 XX
 DR WPI; 2003-657977/62.

XX
 PT Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.

XX
 PS Disclosure; Page 14; 221P; English.

XX
 CC The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.

XX
 SQ Sequence 18 BP; 0 A; 6 C; 9 G; 3 T; 0 U; 0 Other;

XX
 CC Query Match 379 ACCGGGACGAGGGCG 393
 CC Best Local Similarity 86.7%; Score 11.8; DB 1; Length 18;
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC ID ADC9372/C
 CC ID ADC9372 standard; DNA; 18 BP.
 AC AC
 AC ADC9372;
 DT DT 01-JAN-2004 (first entry)

DE PAMA forward PCR primer - SEQ ID 205.

XX
 KW cytostatic; cancer; gene therapy; DGI-2; DGI-5; DGI-7; DGI-9; Hras; leptin; VEGF; vascular endothelial growth factor receptor; VEGFR1; VEGFR2; VEGFR3; Flt1; FMS-related tyrosine kinase 1; Flck1; Kdr; kinase insert domain protein; EGFR; epidermal growth factor; FGFR1; fibroblast growth factor; Tie-1; PCR; ss; primer.

XX
 KW Unidentified.

XX
 PN WO2003035839-A2.

XX
 PD 01-MAY-2003.

XX
 PR 24-OCT-2002; 2002WO-US034021.

XX
 PR 24-OCT-2001; 2001US-0345471P.

XX
 PA (DGIB-) DGI BIOTECHNOLOGIES INC.

XX
 PI Pillatia RC, Brissette R, Spruyt M, Dedova O, Blume A;
 PI Prendergast J, Goldstein N;

XX
 KW ds: allergy; asthma; poly-G nucleic acid; aerosol formulation;
 KW hypo-responsive subject; immunostimulatory.

XX
 XX
 RESULT 1197
 ADB36985/C
 ID ADB36986 standard; DNA; 18 BP.
 AC ADB36985;
 XX
 DT 04-DEC-2003 (first entry)
 XX
 DE Immunosimulatory nucleic acid #600.
 KW ds: allergy; asthma; poly-G nucleic acid; aerosol formulation;
 KW hypo-responsive subject; immunostimulatory.

XX XX
 PT Selecting target and target binder pairs for preparing a composition for
 PT treating cancer by mixing in a reaction vessel phage expressing
 PT biological targets and phage expressing target binders.
 XX XX
 PS Example 18; SEQ ID NO 205; 172pp; English.

The invention relates to a novel method of selecting target and target binder pairs comprising mixing in a reaction vessel phage expressing biological targets and phage expressing target binders, each having distinguishable selection markers and selecting target and target binder pairs based on the selection markers. The molecules of the invention demonstrate cytotoxic activity whilst the method may be useful for selecting target and target binder pairs for preparing a composition for treating cancer. Furthermore, the method may be utilised during gene therapy procedures. The current sequence is that of the PCR primer of the invention.

XX Sequence 18 BP; 2 A; 9 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 18;
 Best Local Similarity 86.7%; Pred. No. 5.6e+02; Indels 0; Gaps 0;
 Matches 13; Conservative 0; Mismatches 2;

QY 336 GACCGGGGGGCTG 350
 18 GGCATGGGGGACTG 4

RESULT 1199
 ABH21732
 ID ABH21732 standard; DNA; 13 BP.
 XX AC
 XX AC
 XX DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 221709 for detecting SNP TSC0053962.
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX WO200177384-A2.
 XX PN WO200177384-A2.
 XX PD 18-OCT-2001.
 XX PR 07-APR-2000; 2000DBE-01019173.
 XX PA (EPIC-) EPIGENOMICS AG.
 XX PI Olek A, Piepenbrock C, Berlin K;
 XX DR WPI; 2001-55177/75.
 XX PN Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX PS Claim 1; SEQ ID NO 221710; 29pp + Sequence Listing; German.
 XX CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pre-treated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABF9999, ABF0010-ABF9999, ABH0010-ABH9999 and ABH0010-ABH2073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patient did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

PS Sequence 13 BP; 1 A; 6 C; 1 G; 4 T; 0 U; 1 Other;

XX CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pre-treated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABF9999, ABF0010-ABF9999, ABH0010-ABH9999 and ABH0010-ABH2073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patient did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 4 A; 1 C; 6 G; 1 T; 0 U; 1 Other;

Query Match 2.7%; Score 11.6; DB 1; Length 13;
 Best Local Similarity 91.7%; Pred. No. 3.1e+02; Indels 0; Gaps 0;
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 231 AAATCGGAGC 242
 Db 2 AAATCGGAGC 13

RESULT 1200
 ABH21733/C
 ID ABH21733 standard; DNA; 13 BP.
 XX AC ABH21733;
 XX DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 221710 for detecting SNP TSC0053962.
 XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX WO200177384-A2.
 XX PN WO200177384-A2.
 XX PD 18-OCT-2001.
 XX PR 07-APR-2000; 2000DBE-01019173.
 XX PA (EPIC-) EPIGENOMICS AG.
 XX PI Olek A, Piepenbrock C, Berlin K;
 XX DR WPI; 2001-55177/75.
 XX PN Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX PS Claim 1; SEQ ID NO 221710; 29pp + Sequence Listing; German.
 XX CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pre-treated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABF9999, ABF0010-ABF9999, ABH0010-ABH9999 and ABH0010-ABH2073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patient did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX Sequence 13 BP; 1 A; 6 C; 1 G; 4 T; 0 U; 1 Other;

Query Match 2.7%; Score 11.6; DB 1; Length 13;
 Best Local Similarity 91.7%; Pred. No. 3.1e+02; Indels 0; Gaps 0;
 Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 231 AAATCGGAGC 242
 |||||||: 242

Db	QY	302	OCTGAGGGCGGG	313
Db	QY	4	CCTCAGGCCCRG	15
RESULT 1201 MAS98785	RESULT 1202 AAS96144			
ID AAS98785 standard; DNA; 15 BP.	ID AAS96144 standard; DNA; 15 BP.			
XX	XX			
AC AAS98785;	AC AAS96144;			
XX	XX			
DT 26-MAR-2002 (first entry)	DT 26-FEB-2002 (first entry)			
DE Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #151.	DE Human Acetylcholinesterase gene allele specific probe #7.			
XX	XX			
KW cytostatic; gene therapy; malignant histiocytosis; isogene; myeloid malignancy; inflammatory disorder; transgenic animal; haplotype; genotype; human; allele specific oligonucleotide; ASO; primer; ss.	KW Human; ss; probe; allele specific oligonucleotide; ASO; AChE; acetylcholinesterase; polymorphic variant; haplotyping; genotyping; neurological disease; Parkinson's disease; Alzheimer's disease; cancer; leukemia; tumour; chromosome 7q22.			
OS Homo sapiens.	OS Homo sapiens.			
XX	XX			
PN WO200179225-A2.	PN WO200179219-A2.			
XX	XX			
PD 25-OCT-2001.	PD 25-OCT-2001.			
XX	XX			
PF 12-APR-2001; 2001WO-US012044.	PF 11-APR-2001; 2001WO-US011853.			
XX	XX			
PR 12-APR-2000; 2000US-0196411P.	PR 14-APR-2000; 2000US-0197173P.			
XX	XX			
PA (GENA-) GENAISSANCE PHARM INC.	PA (GENA-) GENAISSANCE PHARM INC.			
XX	XX			
PI Chew A, Choi JY, Koshy B;	PA (KAZE-) KAZEMI A.			
XX	XX			
DR WPI; 2002-075058/10.	PI Bentivegna SC, Chew A, Choi JY, Koshy B;			
XX	XX			
PT Novel polymorphic variants of colony stimulating factor 1 receptor useful in studying expression and function of the protein, useful for screening candidate drugs to treat diseases e.g. inflammatory disorders.	PT New polymorphic variants comprising acetylcholinesterase (AChE) isogene, useful in expressing AChE protein for use in screening for candidate drugs to treat diseases related to AChE activity, e.g. neurological diseases or cancer.			
XX	XX			
PT Claim 15; Page 17; 164pp; English.	PT Claim 16; Page 13; 79pp; English.			
XX	XX			
PS The invention describes a novel isolated polynucleotide (I) comprising a sequence which is a polymorphic variant (PV) of a reference sequence for colony stimulating factor 1 receptor (CSF1R) gene, found on the genome. Polypeptides are useful for improving the discovery and development of drugs for treating diseases associated with CSF1R activity, e.g., malignant histiocytosis, myeloid malignancies, and inflammatory disorders and the haplotypes can be used to validate CSF1R as a candidate target for treating a specific condition or disease predicted to be associated with CSF1R activity. Genotyping the CSF1R gene of an individual can also be used in developing diagnostic tests and therapeutic treatments. (II) is useful in studying the expression and function of CSF1R, and in expressing CSF1R protein for use in screening for candidate drugs to treat diseases related to CSF1R activity and in studying the effect of the variation on the biological activity of CSF1R as well as on the binding affinity of candidate drugs targeting CSF1R. Antibodies are useful in a variety of diagnostic and prognostic formats and therapeutic methods. A transgenic animal is useful in studying expression of the CSF1R isogenes <i>in vivo</i> , for <i>in vivo</i> screening and testing of drugs targeted against CSF1R protein, and for testing the efficacy of therapeutic agents and compounds. Allele specific oligonucleotides (ASO) are useful as probes and primers, and for assaying a polymorphism in the target region. Without requiring any a priori knowledge of the phenotypic effect of any particular CSF1R or haplotype the invention provides a method for identifying lead compounds that are more likely to show efficacy in clinical trials. This sequence is an allele specific oligonucleotide primer used for detecting CSF1R gene polymorphisms, described in the method of the invention	PS The invention relates to a polynucleotide comprising a polymorphic variant of an acetylcholinesterase (AChE) gene or fragment, protein or complement, the variant comprising an AChE isogene defined by a haplotype selected from haplotypes 1-20 listed in the specification. Also included are methods for haplotyping and genotyping the AChE gene of an individual, a method for predicting a haplotype pair for the AChE gene of an individual, a method for identifying an association between a trait and at least one haplotype or haplotype pair of AChE gene, recombinant nonhuman organisms transformed or transfected with the polynucleotide where the organism expresses AChE protein encoded by the first nucleotide sequence or encoded by the polymorphic variant sequence, an isolated antibody specific for and immunoreactive with AChE, a method of screening for drugs targeting the polypeptide containing AChE polymorphic variant with a candidate agent and assaying for binding activity, a computer system for storing and analysing polymorphism data for AChE gene and a genome anthology for AChE gene which comprises AChE isogenes defined by haplotypes 1-20 given in the specification. The Polymorphisms are useful for studying the biological function of AChE as well as in identifying drugs targeting this protein for the treatment of disorder related to its abnormal expression or function. The polymorphic variants may also be used in screening for compounds targeting AChE to treat a specific condition or disease predicted to be associated with AChE activity e.g., neurological diseases (e.g. Parkinson's disease and Alzheimer's disease), cancer, leukaemia, and tumours. The AChE gene maps to human chromosome 7q22. The present sequence is an allele specific oligonucleotide (ASO) probe used to detect the polymorphic AChE variants of the invention			
SQ Sequence 15 BP; 2 A; 7 C; 4 G; 1 T; 0 U; 1 Other;	SQ Sequence 15 BP; 2 A; 6 C; 5 G; 1 T; 0 U; 1 Other;			
Query Match 2.7%; Score 11.6; DB 1; Length 15;	Best Local Similarity 91.7%; Pred. No. 4.2e+02; Mismatches 0; Indels 0; Gaps 0;			
Matches 11; Conservatve 1; Mismatches 0; Indels 0; Gaps 0;	Sequence 15 BP; 2 A; 6 C; 5 G; 1 T; 0 U; 1 Other;			

CC capable of hybridising to mouse C/EBP alpha mRNA. The C/EBP family of
 CC proteins are a family of transcription factors which regulate the
 CC expression of wide range of genes that control normal tissue development,
 CC cellular function, and differentiation.
 CC C/EBP alpha (also known as CEBPA) is primarily found in tissues involved
 CC in energy metabolism which have a capacity to metabolise lipids,
 CC cholesterol and other sterols. It is thought to be involved in the
 CC regulation of adipocyt and chondrogenic differentiation, and is also
 CC involved in follicular development and ovulation, steroid-induced cell
 CC cycle arrest in the liver, in controlling glucose transporter GLUT2
 CC promoter activity, in the hormonal regulation of metabolism, and in
 CC granulocyte development. The oligonucleotides of the invention are useful
 CC for diagnosis, prevention and treatment of conditions associated with
 CC C/EBP expression, such as cancer, tumour formation, infection, or
 CC inflammation.

XX Sequence 20 BP; 2 A; 9 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 2.7%; Score 11.6; DB 1; Length 20;
 Best Local Similarity 77.8%; Pred. No. 7.3e+02;
 Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 266 GCACCTGGAGCAGGGGG 283
 Db 18 GCACTGGCGCTGGCCG 1

RESULT 1205

ID AAF27039 standard; DNA; 38 BP.

XX AAF27039; AC

XX DT 30-MAR-2001 (first entry)

XX DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:43.

XX KW Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;

XX KW bioavailability; formulation; neurological disorder;

XX KW inflammatory disorder; autoimmune disorder; cancer; Huntington's disease;

XX KW neurodegenerative disorder; Parkinson's disease; Alzheimer's disease;

XX KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;

XX KW malignant glioma; medulloblastoma; neuroectodermal tumour;

XX KW mutagenic primer; Shh.

OS Homo sapiens.

OS Synthetic.

XX WO20073337-A1.

XX PN

XX PD

XX 07-DEC-2000.

XX PF

XX 26-MAY-2000; 2000WO-US014741.

XX PR

XX 01-JUN-1999; 99US-013701P.

XX PR 13-AUG-1999; 99US-0149016P.

XX PA (BIOJ) BIOPEN INC.

XX PI Repinsky RB, Taylor F, Garber E;

XX DR

XX WI; 2001-049927/06.

PT Modified hedgehog protein, useful in the treatment of Parkinson's disease
 PT and Huntington's chorea, comprises a polymer containing a polyalkylene
 PT glycol group linked to any residue other than the N-terminal and lysine
 PT residues.

XX Example 6; Page 77, 157pp; English.

CC The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog proteins are
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene

CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders,
 CC inflammatory and autoimmune diseases, and cancers. In particular, they
 CC may be used to prevent, prevent, or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
 CC disease); age-associated neurological disease; neurological injury and
 CC trauma; immunological diseases of the nervous system (e.g., multiple
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein of the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a human
 CC hedgehog mutagenic primer used in an exemplification of the
 XX invention.

XX Sequence 38 BP; 8 A; 11 C; 9 G; 10 T; 0 U; 0 Other;

Query Match 2.7%; Score 11.6; DB 1; Length 38;
 Best Local Similarity 65.4%; Pred. No. 1.1e+03;
 Matches 17; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 156 GGCTTGAGTGGGTACTAGAGTC 181
 Db 13 GCCTTGACTCGTAGTACCCAGTC 38

Search completed: April 21, 2004, 12:31:04
 Job time : 11 secs